CDX-M620/M670

SERVICE MANUAL

Ver 1.0 2001, 03



US Model
CDX-M620/M670

AEP Model
UK Model
E Model
CDX-M670

• The tuner and CD sections have no adjustments.

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS (US MODEL)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION 23.2 watts per channel minimum continuous average power into 4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more than 5% total harmonic distortion.

CD player section

Signal-to-noise ratio 90 dB

Frequency response 10 – 20,000 Hz

Wow and flutter Below measurable limit Laser Diode Properties (US model)

Material GaAlAs
Wavelength 780 nm
Emission Duration
Laser output power Less than 44.6 µW*

* This output is the value measured at a distance of 200 mm from the objective lens surface on the

Tuner section

Optical Pick-up Block.

FΜ

Tuning range 87.5 – 107.9 MHz (US model)

87.5 - 108.0 MHz (AEP, UK, E model)

Antenna terminal External antenna connector Intermediate frequency 10.7 MHz/450 kHz

Usable sensitivity 8 dBf

Selectivity 75 dB at 400 kHz

Signal-to-noise ratio 66 dB (stereo),

72 dB (mono)

Harmonic distortion at 1 kHz

0.6% (stereo), 0.3% (mono)

Separation 35 dB at 1 kHz

Frequency response 30 – 15,000 Hz

AM (US model)

Tuning range 530 – 1,710 kHz
Antenna terminal External antenna connector

Intermediate frequency 10.7 MHz/450 kHz

Sensitivity 30 µV

Model Name Using Similar Mechanism	CDX-M700R/M750			
CD Drive Mechanism Type	MG-383Z-121//K			
Optical Pick-up Name	KSS-720A			

MW/LW (AEP. UK. E model)

Tuning range MW: 531 – 1,602 kHz

LW: 153 – 279 kHz

Aerial terminal External aerial connector Intermediate frequency 10.7 MHz/450 kHz

Sensitivity MW: 30 µV

LW: 40 μV

Power amplifier section

Outputs Speaker outputs (sure seal connectors)

Speaker impedance 4-8 ohms

Maximum power output 52 W \times 4 (at 4 ohms)

General

Outputs Audio outputs (front/rear)

Subwoofer output (mono) Power antenna relay control lead (US model) Power aerial relay

control lead (AEP, UK, E model)

Power amplifier control

lead

- Continued on next page -

FM/AM COMPACT DISC PLAYER

CDX-M620/M670

FM/MW/LW COMPACT DISC PLAYER

CDX-M670

9-873-505-11 Sony Corporation
2001C0400-1 Audio Entertainment Group
© 2001. 3 General Engineering Dept.



CDX-M620/M670

Inputs Telephone ATT control

lead

Illumination control lead BUS control input connector BUS audio input connector

Antenna input connector (US model) Aerial input connector (AEP, UK, E model)

AUX IN connector (US model)

Tone controls Bass ± 8 dB at 100 Hz

Treble ±8 dB at 10 Hz +8 dB at 100 Hz +2 dB at 10 Hz

Power requirements 12 V DC car battery (negative earth)

Dimensions Approx. $178 \times 50 \times 182 \text{ mm}$

(w/h/d)

Mounting dimensions Approx. $182 \times 53 \times 160 \text{ mm}$

(w/h/d)

Mass Approx. 1.5 kg
Supplied accessories Parts for installation and

connections (1 set)
Front panel case (1)
Card remote commander
RM-X110 (US model)
RM-X111 (AEP, UK, E model)

Note

Loudness

This unit cannot be connected to a digital preamplifier or an equalizer

Design and specifications are subject to change without notice.

SERVICE NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

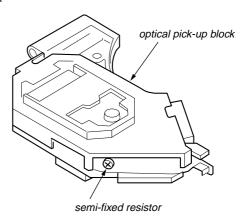
US model:

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

If the optical pick-up block is defective, please replace the whole optical pick-up block.

Never turn the semi-fixed resistor located at the side of optical pick-up block.



AEP/UK model:

CLASS 1 LASER PRODUCT

This label is located on the bottom of the chassis.

CAUTION—INVISIBLE LASER RADIATION WHEN OPEN DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS

This label is located on the drive unit's internal chassis.

When replacing the chassis (T) of mechanism deck which have the "CAUTION LABEL" attached, please be sure to put a new CAUTION LABEL (3-223-913-11) to the chassis (T).

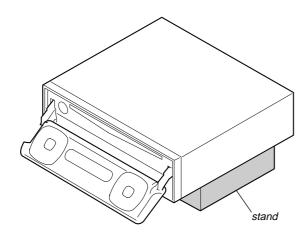
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK A ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

NOTE FOR THE OPENING OF THE FRONT PANEL

In this set, the front panel is lowered to below the bottom face when it is opened.

When servicing the set, place it on a stand having a height of about



TEST MODE

- 1. Turn on the power.

- Push "4" on the card remote control for 2 sec.
 Push "5" on the control for 2 sec.
 Push "1" on the control for 2 sec. (The TEST MODE is entered.)
- 5. Push the "OPEN/CLOSE" switch on the control for 2 sec.
- 6. The front panel detouch position is set. (No display appears at this time.)
- 7. Turn off the power and disassemble the set.

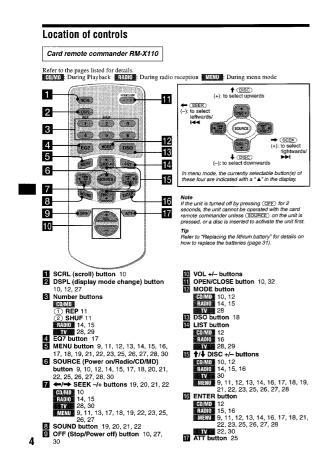
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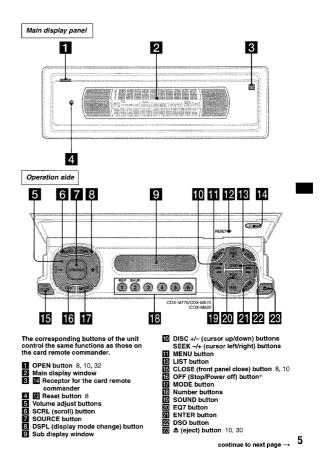
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SECTION 1 GENERAL

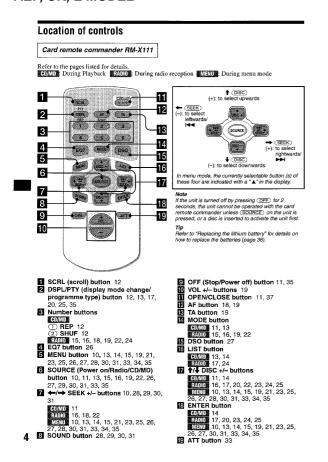
US MODEL

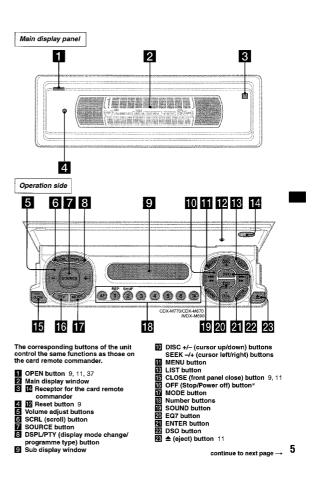
This section is extracted from instruction manual.





AEP, UK, E MODEL





US, AEP, UK, E MODEL

Getting Started

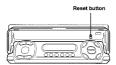
Resetting the unit

Before operating the unit for the first time, or after replacing the car battery or changing the connections, you must reset the unit. Press the reset button with a pointed object, such as a ball-point pen.



- After resetting the unit in the closed position, be sure to press COPEN once before operating further. If a disc is in the unit, the disc will be ejected automatically, insert the disc again. Pressing the reset button will erase the clock setting and some stored contants.

Resetting the unit during use in sub display-position Reset button by the disc-slot with a pointed object, such as a ball-point pen.



Detaching the main display window

You can detach the main display window of this unit to protect the unit from being stolen.

Caution alarm

If you turn the ignition switch to the OFF position without removing the front panel, the caution alarm will beep for a few seconds.

1 Press OPEN on the unit for 2 seconds.

seconds.

CD/MD playback or radio reception stops, and the front panel automatically tilts at an angle of 30°.



2 Detach the main display window as illustrated.

After the main display window detaching is complete, the front panel closes automatical



- rips
 If you want to detach the main display window, when
 the front panel is in the sub-display position, press
 CLOSE) for 2 seconds. If a disc is partially inserted,
 load the disc correcty or remove the disc from the
 unit.
- When carrying the main display window with you, use the supplied front panel case.

Attaching the main display window

Attaching the main display window panel

Place the main display window on the front side of the unit as illustrated, then lightly push the front panel into position until it clicks.

Press (SOURCE) (or insert a disc) to operate the



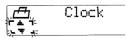
Do not put anything on the inner surface of the main

Setting the clock

The clock uses a 12-hour digital indication.

Example: To set the clock to 10:08

1 Press <u>MENU</u>, then press ↑ or ↓ (the either (+/-) side of <u>DISC</u>) repeatedly until "Clock" appears.



1 Press ENTER.
The hour indication flashes

② Press ↑ or ↓ to set the hour.

- ③ Press → (the (+) side of ⑤EEK).
 The minute indication flashes.
- Press ↑ or ↓ to set the minute 2 Press (ENTER).

10:08

The clock starts. After the clock setting is completed, the display returns to normal play mode.

Tip When D.Info mode is set to on, the time is always displayed (page 26).

R

CD Player CD/MD Unit (optional)

In addition to playing a CD with this unit, you can also control external CD/MD units.

Note
If you connect an optional CD unit with the CD TEXT function, the CD TEXT information will appear in the display when you play a CD TEXT disc.

Playing a disc

(With this unit)

up).
Playback starts automatically.



2 Press OPEN/CLOSE or CLOSE on the unit to close the front panel.

If a disc is already inserted, press (SOURCE) repeatedly until "CD" appears to start playback.

То	Press
Stop playback	(OFF)
Eject the disc	OPEN/CLOSE), or OPEN) then ≜
Skip tracks – Automatic Music Sensor	←/→ (SEEK) (I←4/I→1) [once for each track]
Fast-forward/ reverse - Manual Search	←/→ SEEK (◆◆/▶▶) [hold to desired point]

- Notes

 When the last track on the disc is over, playback restarts from the first track of the disc.

 With optional unit connected, playback of the same source will continue on to the optional CD/MD unit.

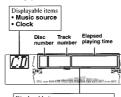
(With optional unit)

- Press (SOURCE) repeatedly to select "CD" or "MD."
- 2 Press (MODE) repeatedly until the desired unit appears. Playback starts.

То	Press
Skip discs – Disc selection	↑ / ↓ (DISC) (+/-)

Display items

When the disc/track changes, any prerecorded title*' of the new disc/track is automatically displayed (if the Auto Scroll function is set to "on," names exceeding 9 characters will be scrolled (page 26)).



Displayable items
• Disc name*¹/artist name*²
• Track title*¹

То	Press	
Switch display item	(DSPL)	
Scroll display iten	SCRL)	

*1 When pressing @SPL), "NO D.Name" or "NO T.Name" indicates that there is no Disc Memo (page 11) or prerecorded name to display. *2 Only for CD TEXT discs with the artist name.

- Notes

 Some characters cannot be displayed.

 For some CD TEXT discs with very many characters, information may not scroil.

 This unit cannot display the artist name for each track of a CD TEXT disc.

Tip
When Auto scroll is set to off, and the disc/track is
changed, the disc/track name does not scroll.

Playing tracks repeatedly

- Repeat Play

The disc in the main unit will repeat a track or the entire disc when it reaches the end. For repeat play, you can select.

• Repeat 1 — to repeat a track.
• Repeat 2* — to repeat a disc.

- Available only when one or more optional CD/MD units are connected.

During playback, press ① (REP) repeatedly until the desired setting appears in the display.
Repeat Play starts.

To return to normal play mode, select "Repeat off."

Playing tracks in random order

— Shuffle Play

- You can select:

 Shuf i to play the tracks on the current disc in random order.

 Shuf 2** to play the tracks in the current optional CD (MD) unit in random order.
- optional CD (MD) unit in random order.

 Shuf All*2 to play all the tracks in all the connected CD (MD) units (including this unit) in random order.
- *1 Available only when one or more optional CD (MD) units are connected. *2 Available only when one or more optional CD units, or two or more optional MD units are connected.

During playback, press ② (SHUF) repeatedly until the desired setting appears in the display. Shuffle Play starts.

To return to normal play mode, select "Shuf off."

Labeling a CD

— Disc Memo (For a CD unit with the CUSTOM FILE function)

You can label each disc with a custom name (Disc Memo). You can enter up to 8 characters for a disc. If you label a CD, you can locate the disc by name (page 12).

q

- Start playing the disc you want to label in a CD unit with the CUSTOM FILE function.
- 2 Press (MENU), then press ↑ or ↓ repeatedly until "Name Edit" appears.
- 3 Press ENTER).



The unit will repeat the disc during the labeling procedure.

- 4 Enter the characters.
 - Press ** repeatedly to select the desired character.

Press - after locating the desired character.



If you press (the (-) side of (SEEK)), you can move back to the left. ③ Repeat steps and o enter the entire name.

5 To return to normal CD play mode, press (ENTER).

continue to next page →

10

- Tips
 Simply overwrite or enter " → " to correct or erase a
- Simply overwine to ener a mane.

 There is another way to start labeling a CD- Press (ISST) for 2 seconds instead of performing sleps 2 and 3. You can also complete the operation by pressing (ISST) for 2 seconds instead of step 5. You can label CDs on a unit without the CUSTOM FILE function if that unit is connected along with a CD unit that has the function. The Disc Memo will be stored in the memory of the CD unit with the CUSTOM FILE function.

Note Repeat/shuffle play is suspended until the Name Edit

Viewing the Disc Memo

As a display item, the Disc Memo always takes priority over any original CD TEXT information

То	Press
View	(DSPL) during CD/CD TEXT disc playback

TipTo find out about other items that can be displayed, see page 10.

Erasing the Disc Memo

- 1 Press SOURCE repeatedly to select "CD."
- 2 Press (MODE) repeatedly to select the CD unit storing the Disc Memo.
- 3 Press (MENU), then press ↑ or ↓ repeatedly until "Name Del" appears.
- 4 Press ENTER.
 The stored names will appear.
- The store uname swil appear.

 5 Press f or I repeatedly to select the disc name you want to erase.

 The stored names will appear.

 6 Press (ENTER) for 2 seconds.

 The name is erased.
- The name is erased.

 Repeat steps 5 and 6 if you want to erase other names.
- 7 Press (ENTER).
 The unit returns to normal CD play mode.

- Notes

 When the Disc Memo for a CD TEXT disc is erased, the original CD TEXT information is displayed.

 If you cannot find the Disc Memo you want to erase, try selecting a different CD unit in step 2.

Locating a disc by name

— List-up (For a CD unit with the CD TEXT/ CUSTOM FILE function, or an MD unit)

You can use this function for discs that have been assigned custom names*1 or for CD TEXT discs*2.

- *1 Locating a disc by its custom name: when you assign a name for a CD (page 11) or an MD.

 *2 Locating discs by the CD TEXT information: when you play a CD TEXT disc on a CD unit with the CD TEXT function.
- 1 Press LIST).
 The name assigned to the current disc appears in the display.



- 2 Press ★ or ₩ repeatedly until you find the desired disc.
- 3 Press ENTER to play the disc.

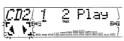
- Notes
 Some letters cannot be displayed (exception: Disc
- Memo).
 If the optional TV monitor is connected, the list appears on the TV monitor instead of the display on the unit.

Selecting specific tracks for playback

— Bank (For a CD unit with the CUSTOM FILE

If you label the disc, you can set the unit to skip or play the tracks of your choice.

- 1 Start playing the disc you want to label.
- 2 Press (MENU), then press ↑ or ↓ repeatedly until "Bank Sel" appears.
- 3 Press ENTER).



- - Press ← or → repeatedly to select the track you want to label.
 - Press ENTER repeatedly to select "Play" or "Skip."
- 5 Repeat step 4 to set "Play" or "Skip" for all the tracks.

6 Press ENTER.
The unit returns to normal CD play mode.

You can set "Play" and "Skip" for up to 24 tracks.
You cannot set "Skip" for all the tracks on a CD.

- Playing specific tracks only
 You can select:
 Bank on to play the tracks with the "Play"
- Bank inv (Inverse) to play the tracks with the "Skip" setting.
- 1 During playback, press (MENU), then press ↑ or ↓ repeatedly until "Bank on," "Bank inv," or "Bank off" appears.
- 2 Press → repeatedly until the desired setting appears.



3 Press (ENTER).
Playback starts from the track following the

To return to normal play mode, select "Bank off" in step 2.

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US MODEL

Radio

The unit can store up to 6 stations per band (FM1, FM2, FM3, AM1, and AM2).

CautionWhen tuning in stations while driving, use Best Tuning Memory to prevent accidents.

Storing stations automatically

— Best Tuning Memory (BTM)

The unit selects the stations with the strongest signals within the selected band, and stores them in the order of their frequency.

- 1 Press (SOURCE) repeatedly to select the radio.
- 2 Press MODE repeatedly to select the band.
- 3 Press MENU, then press ★ or ↓ repeatedly until "BTM" appears.
- 4 Press (ENTER).
 A beep sounds when the setting is stored.

- Notes

 I dry a few stations can be received due to weak signals, some number buttons will retain their former settings.

 The state of the state storing stations from the one currently displayed.

Receiving the stored stations

- 1 Press SOURCE repeatedly to select the radio.
- 2 Press (MODE) repeatedly to select the
- 3 Press the number button (1 to 6) on which the desired station is stored.
- Tip

 Press ↑ or ↓ to receive the stations in the order they are stored in the memory (Preset Search function).

If preset tuning does not work

Press either side of (SEEK) to search for the station (automatic tuning). Scanning stops when the unit receives a station. Repeat until the desired station is received.

Tips

• If automatic tuning stops too frequently, turn on the
Local Seek to limit seek to stations with stronger
signais (see "Changing the sound and display
settings" on page 26).

• If you know the frequency of the station you want to
listen to, press and hold either side of (SEEX) to locate the approximate frequency, then press
(SEEX) repeatedly to fine adjust to the desired
frequency (manual tuning).

If FM stereo reception is poor

Select monaural reception mode (see "Changing the sound and display settings" on page 26). The sound improves, but becomes monaural ("ST" disappears).

Note
If interference occurs, this unit will automatically narrow the reception frequency to eliminate noise (IF Auto function). In such cases, some FM stereo broadcasts may become monaural while in the stereo reception mode.

Tip
Tip
To always hear FM stereo broadcasts in stereo, you
can change the IF Auto setting and widen the
frequency signal reception (see "Changing the sound
and display settings" on page 26). Note that some
interference may occur in this setting.

Storing only the desired stations

You can manually preset the desired stations on any chosen number button.

- 1 Press SOURCE repeatedly to select the radio.
- 2 Press (MODE) repeatedly to select the band.
- 3 Press either side of SEEK to tune in the station that you want to store.
- 4 Press the desired number button (① to ⑤) for 2 seconds until "MEM" appears.
 The number button indication appears in the

Note
If you try to store another station on the same number button, the previously stored station will be erased.

Storing station names - Station Memo

You can assign a name to each radio station and store it in memory. The name of the station currently tuned in appears in the display. You can assign a name using up to 8 characters for a station.

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Storing the station names

- Tune in a station whose name you want to store.
- 2 Press (MENU), then press ↑ or ↓ repeatedly until "Name Edit" appears.
- 3 Press (ENTER).



- 4 Enter the characters.
 - Press ↑*¹ repeatedly to select the desired character.

 - *1 For reverse order, press 4.
 *2 (blank space)
 - Press → after locating the desired character.



If you press ←, you can move back to the

3 Repeat steps 1 and 2 to enter the entire name.

5 Press ENTER).

continue to next page →

- Tips
 Simply overwrite or enter " □ " to correct or erase a
- name.
 There is another way to start storing station names. Press (UST) for 2 seconds instead of performing steps 2 and 3. You can also complete the operation by pressing (UST) for 2 seconds instead of step 5.

Erasing the station name

- 1 During radio reception, press <u>MENU</u>, then press ↑ or ↓ repeatedly until "Name Del" appears.
- 2 Press ENTER).
- 3 Press ↑ or ↓ repeatedly to select the station whose name you want to
- 4 Press (ENTER) for 2 seconds. The name is erased. Repeat steps 3 to 4 if you want to erase other names.
- 5 Press (ENTER).
 The unit returns to normal radio reception mode.

If you have already erased all of the station names, "NO Data" appears in step 4.

Tuning in a station through a list

During radio reception, press LIST momentarily.

The frequency or the name assigned to the current station appears in the display.



- 2 Press ↑ or ↓ repeatedly until you find the desired station.

 If no name is assigned to the selected station, the frequency appears in the display.
- 3 Press (ENTER) to tune in the desired

Note
If the optional TV monitor is connected, and if the
monitor responds to this function, the list appears on
the TV monitor instead of the display on the unit.

AEP, UK, E MODEL

- Playing specific tracks only
 You can select:
 Bank on to play the tracks with the "Play"
- Bank inv (Inverse) to play the tracks with the "Skip" setting.
- 1 During playback, press (MENU), then press ↑ or ↓ repeatedly until "Bank on," "Bank inv," or "Bank off" appears
- 2 Press → repeatedly until the desired setting appears.



3 Press ENTER). Playback starts from the track following the current one.

To return to normal play mode, select "Bank off" in step 2.

Radio

The unit can store up to 6 stations per band (FM1, FM2, FM3, MW, and LW).

CautionWhen tuning in stations while driving, use Best Tuning Memory to prevent accidents.

Storing stations automatically

--- Best Tuning Memory (BTM)

The unit selects the stations with the strongest signals within the selected band, and stores them in the order of their frequency.

- 1 Press (SOURCE) repeatedly to select the radio.
- 2 Press MODE repeatedly to select the
- 3 Press (MENU), then press ↑ or ↓ repeatedly until "BTM" appears.

4 Press ENTER.
A beep sounds when the setting is stored.

- Notes

 If only a few stations can be received due to weak signals, some number buttons will retain their former
- signals, some number buttons will reason signals, some number is indicated in the display, the unit starts storing stations from the one currently displayed.

15 16

Receiving the stored stations

- 1 Press (SOURCE) repeatedly to select the radio.
- 2 Press (MODE) repeatedly to select the
- 3 Press the number button (1 to 6) on which the desired station is stored.

TIp

Press ↑ or ↓ to receive the stations in the order they are stored in the memory (Preset Search function).

If preset tuning does not work

Press either side of SEEK to search for the station (automatic tuning). Scanning stops when the unit receives a station. Repeat until the desired station is

- Tips

 I lad under tuning stops too frequently, turn on the Local Seek to limit seek to stations with stronger signals (see "Changing the sound and display settings" on page 34).

 If you know the frequency of the station you want to isten to, press and hold either side of (SEEX) to locate the approximate frequency, then press (SEEX) repeatedly to fine adjust to the desired frequency (manual tuning).

If FM stereo reception is poor

Select monaural reception mode (see "Changing the sound and display settings" on page 34). The sound improves, but becomes monaural ("ST" disappears).

Storing only the desired stations

You can manually preset the desired stations on any chosen number button.

- 1 Press (SOURCE) repeatedly to select the radio.
- 2 Press (MODE) repeatedly to select the band.
- 3 Press either side of (SEEK) to tune in the station that you want to store.
- 4 Press the desired number button (1 to 6) for 2 seconds until "MEM" appears.

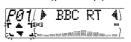
 The number button indication appears in the

Note
If you try to store another station on the same number button, the previously stored station will be erased.

Tuning in a station through a list

— List-up

1 During radio reception, press (LIST) momentarily. The frequency or the name assigned to the current station appears in the display.



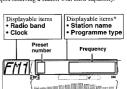
- 2 Press ↑ or ↓ repeatedly until you find the desired station.

 If no name is assigned to the selected station, the frequency appears in the display.
- 3 Press ENTER to tune in the desired

RDS

Overview of RDS

FM stations with Radio Data System (RDS) service send inaudible digital information along with the regular radio programme signal. For example, one of the following will be displayed upon receiving a station with RDS capability.



* see "Tuning in stations by programme type" on page 20.

То	Press	_
Switch display item	(DSPL/PTY)	

RDS services

- RDS services

 RDS data offers you other conveniences, such as:

 *Automatic retuning of a programme, helpful during long-distance drives. → AF → page 18

 *Receiving traffic announcements, even when enjoying another programme/source. ─

 *TA → page 19

 *Selecting stations by the type of programme is broadcasts. PTY → page 20

 *Automatic clock time setting. CT → page 21

- Notes

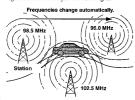
 Depending on the country or region, not all of the RDS functions are available.

 RDS may not work properly if the signal strength is weak or if the station you are funed to is not transmitting RDS data.

Automatic retuning for best reception results

— AF function

The alternative frequencies (AF) function allows the radio to always tune into the area's strongest signal for the station you are listening to.



1 Select an FM station (page 15).

2 Press AF repeatedly until "AF on" appears.
The unit starts searching for an alternative frequency with a stronger signal in the same

network.

If "NO AF" flashes, the currently tuned into station does not have an alternative frequency.

Note
When there is no alternative frequency in the area or
when you do not need to search for one, turn the AF
function off by selecting "AF off."

For stations without alternative frequencies

Press either side of (SEEK) while the station name is flashing (within 8 seconds).

The unit starts searching for another frequency with the same PI (Programme Identification) data ("PI Seek" appears). If the unit cannot find the same PI, the unit returns to the previously selected frequency.

Staying with one regional programme

Staying with one regional programme When AF function is on: this unit's factory-set setting restricts reception to a specific region, so you won't be switched to another regional station with a stronger frequency. If you leave this regional programme's reception area or would like to take advantage of the whole AF function, select "REG off" from the MENU (page 34).

Local Link function

(United Kingdom only)

This function enables you to select other local stations in the area, even if they are not stored on your number buttons.

- 1 Press a number button (1 to 6) that has a local station stored on it.
- 2 Within 5 seconds, press the number button of the local station again.
- 3 Repeat this procedure until the desired local station is received.

Receiving traffic announcements

— TA/TP

By activating the Traffic Announcement (TA) and Traffic Programme (TP), you can automatically tune in an FM station broadcasting traffic announcements. These settings function regardless of the current FM programme/source, CD/MD; the unit switches back to the original source when the bulletin is over.

Press (TA) repeatedly until "TA on" appears. The unit starts searching for traffic information stations.

Inc unit states of the information stations, and information stations, and information states ecception of such stations, and infancial states during an actual traffic announcement. The unit will continue searching for stations available with TP if information in the information in the information informa

To cancel all traffic announcements, select "TA off."

То	Press	
Cancel current announcement	(TA)	

Tip
You can also cancel the current a pressing (SOURCE) or (MODE).

Presetting the volume of traffic announcements

You can preset the volume level of the traffic announcements so you won't miss hearing them

1 Press VOL to adjust the desired volume level.

2 Press (TA) for 2 seconds.
"TA" appears and the setting is stored

Receiving emergency announcements If either AF or TA is on, the unit will switch to emergency announcements, if one comes in while listening to an FM station or CD/MD.

Presetting RDS stations with AF and TA setting

When you preset RDS stations, the unit stores each station's AF/TA setting (on/off) as well as its frequency. You can select a different setting (for AF, TA, or both) for individual preset stations, or the same setting for all preset stations. If you preset stations with "AF on," the unit automatically stores stations with the strongest radio signal.

Presetting the same setting for all preset stations

- 1 Select an FM band (page 15).
- Press (AF) and/or (TA) to select
 "AF on" and/or "TA on."
 Note that selecting "AF off" or "TA off"
 stores not only RDS stations, but also nonRDS stations.
- 3 Press (MENU), then press ★ or ↓ repeatedly until "BTM" appears.
- 4 Press (ENTER) until "BTM" flashes.

Presetting different settings for each

- 1 Select an FM band, and tune in the desired station (page 16).
- 2 Press (AF) and/or (TA) to select "AF on" and/or "TA on."
- 3 Press the desired number button (1 to 6) until "MEM" appears.

Repeat from step 1 to preset other stations

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Tuning in stations by programme type

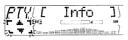
— PTY

You can tune in a station by selecting the type of programme you would like to listen to.

Programme types	Display
News	News
Current Affairs	Affairs
Information	Info
Sports	Sport
Education	Educate
Drama	Drama
Culture	Culture
Science	Science
Varied	Varied
Popular Music	Pop M
Rock Music	Rock M
Easy Listening	Easy M
Light Classical	Light M
Classical	Classics
Other Music Type	Other M
Weather	Weather
Finance	Finance
Children's Programmes	Children
Social Affairs	Social A
Religion	Religion
Phone In	Phone In
Travel	Travel
Leisure	Leisure
Jazz Music	Jazz
Country Music	Country
National Music	Nation M
Oldies Music	Oldies
Folk Music	Folk M
Documentary	Document

You cannot use this function in some countries where no PTY (Programme Type selection) data is available

Press DSPLPTY during FM reception until "PTY" appears.



The current programme type name appears if the station is transmitting the PTY data.

"----" appears if the received station is not an RDS station, or if the RDS data is not received.

3 Press (ENTER).
The unit starts searching for a station broadcasting the selected programme type

Setting the clock automatically

-- CT

The CT (Clock Time) data from the RDS transmission sets the clock automatically.

1 During radio reception, press (MENU), then press ↑ or ↓ repeatedly until "CT off" appears.



2 Press → repeatedly until "CT on" appears.
The clock is set.

3 Press ENTER to return to the normal display.

To cancel the CT function, select "CT off" in step 2.

- Notes
 The CT function may not work even though an RDS station is being received.
 There might be a difference between the time set by the CT function and the actual time.

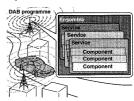
DAB (optional)

You can connect an optional DAB tuner to this unit.

Overview of DAB

DAB (Digital Audio Broadcasting) is a new multimedia broadcasting system that transmits audio programmes with a quality comparable to that of CDs. This is made possible by the use of a microcomputer in the DAB tunner which uses the radio signals sent from multiple acrials and multi-path signals (reflected radio waves) to boost the strength of the main signal. This makes DAB almost immune to radio interference even in a moving object such as a car.

Each DAB station bundles radio programmes (services) into an ensemble which it then broadcasts. Each service contains one or more components. All ensembles, services, and components are identified by name, so you can access any of them without having to know their frequencies.



- Notes

 * The DAB system is still in a testing phase. Some services have not been sufficiently defined or are presently being tested. At present, such services are not supported by the optional DAB tuner unit XT-1000AB.

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Basic operations of DAB

Searching for the ensemble and

- Automatic Tuning
- Press (SOURCE) repeatedly to select the radio.
- 2 Press MODE repeatedly to select "DAB."
- 3 Press and hold either side of SEEK until "Seek +" or "Seek -" appears.



The unit will stop seeking when an ensemble is located. The unit will then automatically select the first service and display its name, and the display indicator will change from "Seek +"/r"Seek -" to the service name.

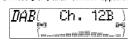
4 Press either side of SEEK to select the desired service.

Selecting the ensemble

— Manual Tuning

If you know the channel number of ensemble, follow the procedure below to tune in.

- 1 Press SOURCE repeatedly to select
- 2 Press MODE repeatedly to select "DAB."
- 3 Press ↑ or ↓ until "Ch. XXX" appears.



4 Press ↑ or ↓ repeatedly until the desired channel number appears.

Receiving the preset services
Following procedure is available after presetting
the service. For details on presetting the services refer to "Presetting DAB services automatically,"
(page 23) and "Presetting DAB services
manually" (page 23).

- 1 Press SOURCE repeatedly to select the radio.
- 2 Press (MODE) repeatedly to select "DAB."
- 3 Press ↑ or ↓ repeatedly to select the preset service.

Tip
There is another way to receive the preset service
(preset on numbers 1 to 6).
Press the number button (① to ⑥) on which the
desired service is stored.

Refer to the level indication to check the receiving condition of the DAB programme. The level indication increases as the strength of the receiving signal increases.

level 0 level 1 level 2 level 3 level 4 A. A. A. A. A.

"A" will flash in the display if the reception is

o display the level indication, select the spectrum nalyzer pattern A-1 or A-2 (page 33).

Presetting DAB services automatically

— втм

The BTM (Best Tuning Memory) function picks out DAB ensembles and automatically assigns the services within the ensembles to preset service numbers. The unit can preset up to 40 services.

- service numbers. Ine unit can preset up to 40 services. If services have been previously set, the BTM function operates under the following conditions:

 If you activate the BTM function while listening to a preset service, the unit will store detected services (by overwriting) only to preset numbers higher than that of the current present service.

 If you activate the function while listening that are present service.
- If you activate the function while listening to a service that is not preset, the unit will replace the contents of all preset numbers.
 In both cases above, if the unit detects a service that is identical to one already preset, the previously stored service remains unchanged and the newly detected service is not preset.
- 1 While listening to a DAB programme, press (MENU).
- 2 Press ↑ or ↓ repeatedly until "BTM" appears.

A Press ENTER.

A beep sounds when the service is stored.

After activating the BTM function, the unit tunes the service assigned in the last smallest preset memory No. automatically.

Presetting DAB services manually

- Preset Edit

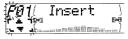
You can also preset DAB services manually or delete a service which is already preset. Note that up to 40 services (preset either by the BTM function or manually) can be preset to the unit's

- 1 While listening to a DAB programme, press (MENU).
- 2 Press ↑ or ↓ repeatedly until "PRS Edit" appears, then press ENTER).
- 3 Select the service and the preset number you want to preset.
- Press either side of SEEK to select the service.
- ② Press ↑ or ↓ to select the preset number.



3 Press ENTER.

The Preset Edit commands will appear in The Preset I the display.



- 4 Press ↑ or ↓ to select the desired command.

5 Press (ENTER).
To edit other services, repeat steps 3 and 4.

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Replacing the services in preset

memories
Press ★ or ★ to select "Over Wrt" in step 4, then press ENTER.

Tip
There is another way to preset the service (on numbers 1 to 6).
After receiving the service, press the desired n After receiving the service, press the desired number button (1 to 1) until a beep sounds.

Adding the services in preset

memories
Press ↑ or ↓ to select "Insert" in step 4, then
press ENTER.

Note "Insert" does not appear if the maximum number of services (40) is already preset in memory.

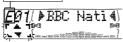
Erasing the services in preset memories Press ↑ or ↓ to select "Delete" in step 4, then press ENTER.

Tuning in DAB progra through a list

Follow the procedure below to tune in a DAB programme manually.

While listening to a DAB programme, press (LIST) repeatedly until "E" (ensemble list) appears.

E: ensemble list S: service list C: component list P: preset list



- All available ensembles will be listed.
- 2 Press ★ or ♦ until the desired ensemble appears, then press
- (ENTER).
 The first service for the ensemble is selected automatically.
- 3 Press LIST repeatedly until "S" (service list) appears.
 All services available for the ensemble will be
- 4 Press ↑ or ↓ repeatedly until the desired service appears, then press (ENTER).

 The first component for the service is selected automatically.
- 5 Press (LIST) repeatedly until "C" (component list) appears.
 All components available for the service will be listed.
- 6 Press ↑ or ↓ until the desired component appears, then press

matic updating of the ensemble

list
When you perform the BTM function for the first
time, all the ensembles available in your area are
automatically stored. When you perform the
BTM function again, the contents of these lists
are updated in accordance with the conditions
described on page 23.
An ensemble is added to the respective list when
it is received during Automatic Tuning or
Manual Tuning but is unlisted.
An ensemble is also deleted from the respective
list when:
'you select an ensemble from the list, but it
cannot be received.

- cannot be received.
 you perform Automatic Tuning or Manual
 Tuning to receive a listed ensemble, service, or
 the component, but it cannot be received.

Switching multi-channel audio and DRC

DAB can contain multi-channel audio. You can select main or sub-channel for reception. Also, if you turn on the DRC (Dynamic Range Control) function, the dynamic range on the service which supports DRC can automatically be extended. The following items can be set:

- BLGI.— to select the channel from either "Main" (main-channel) or "Sub" (sub-channel).

- channel).
 DRC to turn on or off the function
- 1 While listening to a DAB programme, press MENU.
- 2 Press ★ or ♣ repeatedly until "DRC" or "BLGL" appears. 3 Press either side of SEEK to select the desired setting (Example: "on" or "off").
- 4 Press ENTER).

Note"BLGL" appears in the menu only when the unit is receiving a multi-channel programme.

Locating a DAB service by programme type (PTY)

You can use the PTY (Programme type selection) function to tune in the programme you want.

- 1 While listening to a DAB programme, press DSPL/PTY).
- 2 Press ★ or ♦ repeatedly to select the programme type.



The programme types appear in the order shown on page 20.

3 Press ENTER. Searching for a service of the selected programme type begins automatically.

US, AEP, UK, E MODEL

Tuning up for your best sound

The unit provides the various functions to adjust the sound so that you can enjoy the best sounding music.

Setting the equalizer (EQ7)

You can select an equalizer curve for 7 music types (Vocal, Club, Jazz, New Age, Rock, You can store and Xplod). You can store and adjust the equalizer settings for frequency and level.

Selecting the equalizer curve

- 1 Press (SOURCE) to select a source (radio, CD, or MD).
- 2 Press EQ7 repeatedly until the desired equalizer curve.
 Each time you press (EQ7), the item changes.



To cancel the equalizing effect, select "off." After 3 seconds, the display returns to the normal playback mode.

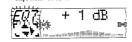
Adjusting the equalizer curve

- 1 Press MENU.
- 2 Press ₹ or ♣ repeatedly until "EQ7 Tune" appears, then press (ENTER). 3 Press ← or → to select the desired equalizer curve, then press (ENTER). Each time you press (SEEK), the item changes.
- 4 Select the desired frequency and level.
- Press ← or → to select the desired frequency.
 Each time you press ← or →, the frequency changes as follows:

62 Hz ↔ 157 Hz ↔ 396 Hz ↔ 1.0 kHz ↔ 2.5 kHz ↔ 6.3 kHz ↔ 16 kHz



Press ↑ or ↓ to adjust the desired volume level. (CDX-M770)
The volume level is adjustable by 1 dB steps from -12 dB to +12 dB. (CDX-M670/M620)
The volume level is adjustable by 1 dB steps from -10 dB to +10 dB.



To restore the factory-set equalizer curve, press (ENTER) for 2 seconds.

5 Press (ENTER).
After the effect setting is complete, the display returns to the normal playback mode

Setting the soundstage menu

- Dynamic Soundstage Organizer (DSO)

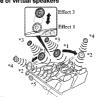
by memo ournistage urganizer (USO) If your speakers are installed into the lower part of the doors, the sound will come from below and may not be clear.

The DSO (Dynamic Soundstage Organizer) function creates a more ambient sound as if there were speakers in the dashboard (virtual speakers).

Selecting the DSO mode (CDX-M770)

DSO mode of CDX-M770

Display window	Meaning				
STD	Virtual speakers (Standard)				
WIDE	Virtual speakers (Wide)				
STD-SP	Standard+depth				
WIDE-SP	Wide+depth				
off	Cancel				



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- ers position (lower part of the front
- Press (SOURCE) to select a source (tuner, CD, or MD).
- 2 Press (DSO) repeatedly to select the desired DSO mode.



To cancel the DSO mode, select "off." After 3 seconds, the display returns to the normal playback mode.

- Tips
 Tips
 Tips Defect may be hard to discern depending on the type of car you are driving and the music you are listening to. When DSO setting is "WIDE," the FM recaption is inaudible. In this case, reset the DSO setting to "STD."

Turning the DSO mode on (off) (CDX-M670/M620)

DSO mode of CDX-M670/M620

Memory presets	Meaning					
on	Virtual speakers					
off	Cancel					

- 1 Press SOURCE to select a source (tuner, CD, or MD).
- 2 Press DSO to select "on" or "off".



To cancel the DSO mode, select "DSO off." After 3 seconds, the display returns to the normal playback mode.

Adjusting the DSO mode (CDX-M770)

- 1 Press (SOURCE) to select a source (tuner, CD, or MD).
- 2 Press (MENU).
- 3 Press ↑ or ↓ repeatedly until "DSO tune" appears, then press ENTER.
- 4 Press ← or → to select the desired DSO mode, then press ENTER).
- 5 Select the effect level.
 You can select the desired effect from 3 effect lebels for each DSO mode.

Press ★ or ↓ repeatedly to select desired effect.



To restore the effect, press (ENTER) for 2

6 Press ENTER).

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If the sound from the tweeter is too shrill (CDX-M770)

- 1 While the unit is operating, press MENU).
- 2 Press ↑ or ↓ repeatedly until "DSO norm" appears.
- 3 Press to select "DSO soft."



4 Press (MENU).

To restore the sound, select "DSO norm."

Listening to each programme source in its registered DSO

- Source Sound Memory (SSM)

Each time you return to the same source, you can hear the same DSO menu and equalizer curve registered for that source, even after changing the programme source or turning the unit off and then on again.

Adjusting the sound characteristics

You can adjust the sound characteristics.

The bass and treble levels and subwoofer volume can be stored independently for each source.

1 Select the item you want to adjust by pressing (SOUND) repeatedly. Each time you press (SOUND), the item changes as follows:

(CDX-M770)
POS (position) → BAL (left-right)
→ F (front volume) → R (rear volume) →
SUB (subwoofer volume)

(CDX-M670/M620)
BAS (bass) → TRE (treble)
→ BAL (left-right) → FAD (front-rear)
→ SUB (subwoofer volume)

2 Adjust the selected item by pressing

← or →.

When adjusting with the rotary commander, press (SOUND) and rotate the VOL control

Note Adjust within 3 seconds after selecting the item

Selecting the listening position (CDX-M770 only)

You can set a delayed time for the sound to reach the listeners from the speakers. In this way, the unit can simulate a natural sound field so that you feel as if you are in the center of the sound field no matter where you sit in the car





- 1 Press (SOURCE) to select a source (tuner, CD, or MD).
- 2 Press SOUND repeatedly until "POS"



3 Press ← or → to select the desired listening position.

 $AII \leftrightarrow Front \leftrightarrow Front-R \leftrightarrow Front-L \leftrightarrow Rear \leftrightarrow off \leftrightarrow AII$

The listening positions appear in the order shown above.

To cancel the POS mode, select "off." After three seconds, the display returns to the normal playback mode.

Adjusting the balance (BAL)

You can adjust the sound balance from the left

- 1 Press SOURCE to select a source (tuner, CD, or MD).
- 2 Press (SOUND) repeatedly until "BAL"

ĒΑ	L	l	L.				li				F:\)
г.	. 7	Est	7								010
3	ŧ.	ſ.	77. 114	. Inchill	4 150	1300	un II	Bee	fill m	ion	

3 Press ← or → to adjust the balance After 3 seconds, the display returns to the normal playback mode.

Adjusting the bass (CDX-M670/M620 only)

You can adjust the bass from the speakers.

- 1 Press SOURCE to select a source (tuner, CD, or MD).
- 2 Press (SOUND) repeatedly until "BAS" appears.



3 Press ← or → to adjust the bal After 3 seconds, the display returns to the normal playback mode.

Adjusting the treble (CDX-M670/M620 only)

You can adjust the treble from the speakers

- 1 Press (SOURCE) to select a source (tuner, CD, or MD).
- 2 Press (SOUND) repeatedly until "TRE"



3 Press ← or → to adjust the balance. After 3 seconds, the display returns to the normal playback mode.

Adjusting the balance (FAD) (CDX-M670/M620 only)

You can adjust the sound balance from the front and rear speakers.

- 1 Press (SOURCE) to select a source (tuner, CD, or MD).
- 2 Press SOUND repeatedly until "FAD"



3 Press ← or → to adjust the balance.
After 3 seconds, the display returns to the normal playback mode.

Adjusting the front and rear volume (CDX-M770 only)

- 1 Press (SOURCE) to select a se (tuner, CD, or MD).
- 2 Press (SOUND) repeatedly to select the "F" for the front speakers or "R" for the rear speakers.



3 Press ← or → to adjust the volume of front/rear speakers.

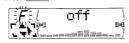
After 3 seconds, the display returns to the normal playback mode.

Adjusting the cut-off frequency and the output volume level for the front/rear

To match the characteristics of the installed speaker system, you can adjust the output volume level and select the cut-off frequency of



- 1 Press MENU
- 2 Press ↑ or ↓ repeatedly to select "Front HPF" or "Rear HPF."
- 3 Press (ENTER).



continue to next page

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Adjusting the frequency of the subwoofer(s) (CDX-M770 only)

4 Press ← or → to select the cut-off frequency.
Each time you press ← or →, the frequency changes as follows:

off \leftrightarrow 78 Hz \leftrightarrow 99 Hz \leftrightarrow 125 Hz \leftrightarrow 157 Hz \leftrightarrow 198 Hz

tevel. The volume level is adjustable by 1 dB steps from -12 dB to +12 dB.

When you lower the volume all the way down, "--∞dB" appears and the cut-off frequency is disabled.

6 Press (ENTER).
After the effect is complete, the display returns to the normal playback mode.

Adjusting the volume of the

1 Press (SOURCE) to select a source (tuner, CD, or MD).

2 Press (SOUND) repeatedly until "SUB"

SUB(=----- 0)

Total Constitution and the first till the sent constitution of the sent

3 Press ← or → to adjust the volume. After 3 seconds, the display returns to the normal playback mode.

11p When you press ← repeatedly to adjust the volume all the way down, "-- ∞dB" appears and the cutout frequency of the subwoofer is disabled.

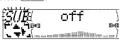
subwoofer(s)

5 Press ↑ or ↓ to adjust the volume

To match the characteristics of the connected subwoofer(s), you can cut out the unwanted high and middle frequency signals entering the subwoofer(s). By setting the cut-off frequency (see the diagram below), the subwoofer(s) will output only low frequency signals so you can get a clearer sound image.



- 1 Press (MENU).
- 2 Press ★ or ↓ repeatedly until "SUB LPF" appears.
- 3 Press (ENTER).



4 Press ← or → to select the desired cut-off frequency.
Each time you press ← or →, the frequency changes as follows:

62 Hz ↔ 78 Hz ↔ 99 Hz ↔ 125 Hz ↔ 157 Hz ↔ off 5 Press ↑ or ↓ to adjust the volume.

The volume level is adjustable by 1 dB steps from -12 dB to +12 dB.

Tip
When you lower the volume all the way down,
"--∞dB" appears and the cut-off frequency is
disabled.

6 Press (ENTER).
After the frequency setting is complete, the display returns to the normal playback mode.

Other adjustable items (CDX-M670/M620 only)

- The following items can be adjusted:

 HPF (High pass filter)— to select the cut-off frequency to "off;" "18 Hz," or "125 Hz."

 LPF (Low pass filter)— to select the cut-off frequency to "off "8 Hz," "125 Hz," or "off."

 Loud (Loudness)— to enjoy bass and treble even at low volumes. The bass and treble will be reinforced.
- 1 Press (MENU).
 To set A.Scrl, press (MENU) during CD/MD playback.
- 2 Press ↑ or ↓ repeatedly until the desired item appears.
 3 Press → to select the desired setting (Example: "on" or "off").
- 4 Press (ENTER).
 After the mode setting is completed, the display returns to normal play mode.
- Note
 The displayed item will differ depending on the source

Tip
You can easily switch among categories by pressing ♠
or ♣ for 2 seconds.

Other Functions

You can also control the unit (and optional CD/MD units) with a optional rotary commander. RM-XSS (supplied with CDX-M770 only)

Using the rotary commander

First, attach the appropriate label depending on how you want to mount the rotary commander. The rotary commander works by pressing buttons and/or rotating controls.



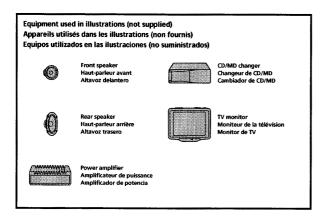
Inserting the supplied lithium battery

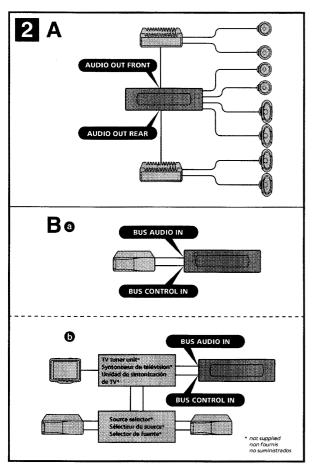


Tip For information on lithium battery, refer to "Notes on lithium battery" (page 31).

continue to next page \rightarrow 23

US MODEL Connection





Cautions

- or This unit is designed for negative ground 12 V DC operation only.

 Do not get the wires under a screw, or caught in moving parts (e.g. seat railing).

 Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- circuits.

 Connect the yellow and red power input leads only after all other leads have been connected.

 Run all ground wires to a common ground noint.
- Run at ground wires to a common ground point.
 Be sure to insulate any loose unconnected wires with electrical tape for safety.
 The use of optical instruments with this product will increase eye hazard.

Will increase eye nazard.

Notes on the power supply cord (yellow)

When connecting this unit in combination with other stereo components, the connected car circuit's rating must be higher than the sum of each component's fuse.

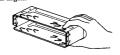
When no car circuits are rated high enough, connect the unit directly to the battery.

Parts list (11)

The numbers in the list are keyed to those in the instructions.

For the use of release key **②**, see the supplied operating instructions.

Caution Handle the bracket ① carefully to avoid injuring your fingers.



Connection example (2)

Tip ([2-8-6])
For connecting two or more changers, the source selector XA-C30 (optional) is necessary.

Connection diagram (3)

- To a metal surface of the car first connect the black ground lead, then connect me black ground lead, then connect the yellow and red power inspit lead of power supply lead of antenna booster amplifier Notes

 It is not necessary to connect this lead if there is no power antenna or antenna booster, or with a manually-operated telescopic antenna.

 When your car has a built-in FMAMA antenna in the rear/side glass, see "Notes on the control and power supply leads."
- To AMP REMOTE IN of an optional por amplifier

- amplifier
 This connection is only for amplifiers. Connecting
 any other system may damage the unit.

 To the interface cable of a car telephone
 To a car's illumination signal
 Be sure to connect the black ground lead to it first.
- Be sure to connect the black ground lead to it irst.

 To the +12 ty ower terminal which is energized in the accessory position of the ignition key switch Notes

 If there is no accessory position, connect to the +12 V power (battery) terminal which is energised at all times.
- V power (battery) terminal which is energised at all times. Be sure to connect the black ground lead to it first. When your car has a built-in FM/AM antenna in the rear/side plass, see "Notes on the control and power supply leads."
- To the +12 V power terminal which is energised at all times
 Be sure to connect the black ground lead to it first.

- Be sure to connect the black ground lead to it first.
 Notes on the control and power supply leads

 The power antenna control lead (blue) supplies +12 V

 DC when you turn on the turn

 When your car has built-in FM/AM antenna in the rear'
 site glass. connect the power antenna control lead (blue) or the accessory power input lead (red) to the power terminal of the existing antenna booster. For details, consult your dealer.

 A power antenna without relay box cannot be used with this unit.

Memory hold connection
When the yellow power input lead is connected, power
will always be supplied to the memory circuit even when
the ignition key is turned off.

- the ignition key's turned off.

 Motas on spaker connection.

 Bafors connecting the spakers, turn the unit off.

 Bafors connecting the spakers, turn the unit off.

 Use speakers with an impadence of 4 to 8 chms, and with adequate power handling capacities to avoid its damage.

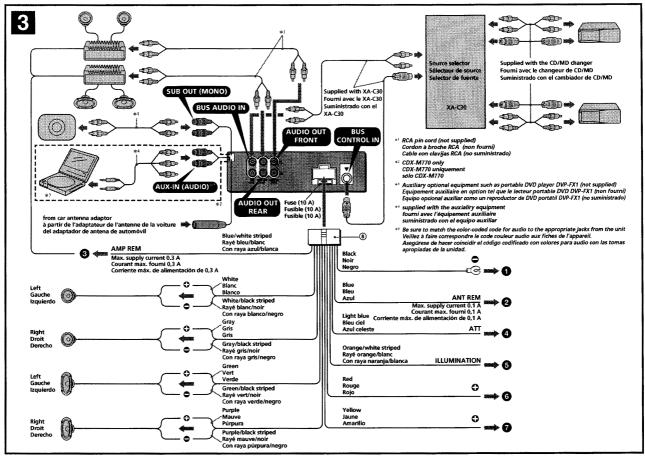
 Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers chassis, or connect the terminals of the right speakers.

 Do not connect the speaker is parallel.

 Do not attempt to connect the speakers in parallel.

 Connect only passive speakers. Connecting active speakers (with built-in amplifies) to the speaker terminal or grange the unit such the built-in speaker wires installed in your car if the unit shares a common negative (-) bead for the right and left speakers.

 Do not connect the unit's speaker cords to each other.



Précautions

- Cet appareil est exclusivement conçu pour fonctionner sur une tension de 12 V CC avec masse négative.
- masse négalive.

 Evitez de fixer des vis sur les câbles ou de coincer ceux-ci dans des pièces mobiles (par exemple, armature de siège).

 Avant d'effectuer les raccordements, débranchez la borne de terre de la battlerie du véhicule pour
- éviter tout court-circuit.

 Raccordez les fils d'entrée d'alimentation jaune et rouge seulement après avoir terminé tous les * Racordez les fils d'entre à animentation point et rouge seulement après avoir terminé tous les autres raccordements.
 * Rassemblez tous les fils de terre en un point de masse commun.
 * Veillez à isoler avec du chatterton tout fil lâche

- non raccorde.

 Remarques sur le cordon d'alimentation (jaune)

 Lorsque cet appareil est raccordé à d'autres d'éments stérée, la valeur nominale des circuits de la voiture raccordée doit être supérieure à la somme des fusibles de chaque élément.

 Si aucun circuit de la voiture n'est assez puissant, raccordez directement l'appareil à la batterie.

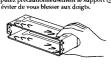
Liste des composants (11)

Les numéros de l'illustration correspondent à ceux des instructions.

Pour l'utilisation de la clé de déblocage (1), reportez-vous au mode d'emploi.

Attention

Manipulez précautionneusement le support ①
pour éviter de vous blesser aux doigts.



Exemple de raccordement (2)

Remarques (2-A)
Raccordez d'abord le fil de masse avant de raccorder
l'amplificateur.

Conseil (2-B-6)
Dans le cas du racco
le sélecteur de s le cas du raccordement de deux changeurs ou plus, llecteur de source XA-C30 (en option) est spensable.

Schéma de raccordement (3)

A un point métallique de la voiture
Branchez d'abord le fil de masse noir et, ensuite, les
fils d'entrée d'alimentation jaune et rouge.

Vers le fil de commande de l'antenne électrique ou le fil d'alimentation de l'amplificateur d'antenne

- le fill d'allimentation de l'ampiritaceur d'antiente.

 Il n'est pas nécessaire de raccorder ce fil s'il n'y a pas d'antenne électrique ni d'ampificateur d'antenne, ou avec une antenne télescopique manuelle.

 Remarques une si écupies d'une antenne FMAM intégrée dans la vitre artievellatérale, voir l'Amparques sur les fils de commande et d'alimentation.

 Au niveau du AMP REMOTE IN de l'amplificateur de puissance en option ce raccordement s'applique uniquement aux amplificateurs. Le branchement de tout autre système risque d'endomragger l'appareil.

 Vers le cordon de l'alson d'un téléphone de voiture Au signal d'éclairage de la voiture

- Au signal d'éclairage de la voiture
 Raccordez d'abord le fil de masse noir.
 A la bome +12 V qui est alimentée quand la clé
 de contact est sur la position accessoires
- de contact est sur la position accessoires. Remarques

 Sil in ya pas de position accessoires, raccorder la borne d'alimentation (batterie) -12 V qui est alimentée en permanence. Raccordez d'abord le fil de masse noir.

 Si votre voiture est équipée d'une antenne FM/AM professor le la compartit sicile, voir Yennarques sur les fils de commande et d'alimentation.

 Ala borne +12 qui est alimentée en permanence. Raccordez d'abord le fil de masse noir.

- Recordez d'abord le fil de masse noir.

 Remarques sur les fils de commande et d'alimentation : le fil de commande et d'alimentation : le fil de commande de l'antenne électrique (bleu) fournit une alimentation de 12 V CC lorsque vous mettez l'appareil sous tersions et d'une antenne fils de l'aborde d'une antenne fils d'aborde d'une antenne fils d'alimentation des exessoires (rouge) au bornier de d'alimentation des exessoires (rouge) au bornier de l'amplificateur d'antenne vistant. Pour plus de détails, consultez votre revendeux:

 Une antenne électrique sans boilter de relais ne peut pas être utilisée avec cet appareil.

pas et uniones et executes appareir.

Raccordement pour la conservation de la mémoire
Lorsque le fil d'entrée d'alimentation jaune est raccordé,
le circuit de la mémoire est alimenté en permanence
même si la clé de contact est sur la position d'arrêt.

- Remarques sur le raccordement des haut-parleurs

 Avant de raccorder les haut-parleurs, mettez l'appareil
 hors tension.

 Utilisez des haut-parleurs ayant une impédance de 4 à
 others avec une capacité.

- Avant de raccorder les haut-parleurs, mettes l'appareil hors tension.

 Utilisez des haut-parleurs ayant une impedance de 4 a 8 donns avec une capacite de manipulation adéquate pour eviter de les andommager.

 Ne raccorder pas les bornes du système de haut-parleur au chàssi de la voiture et ne raccordez pas les bornes du Meraccordez pas les bornes du borne neigative (-) de l'enceinte.

 Ne raccorder pas le câble de masse de cet appareil à la borne neigative (-) de l'enceinte.

 Nessayez pas de raccorde nei baut-parleurs en parallèle.

 Raccorder uniquement des haut-parleurs en parallèle.

 Raccorder de haut-parleurs actifs (avec amplificateurs intégrés) aux bornes des haut-parleurs pas et de l'enceinte de haut-parleurs mett, n'utilisez pas les fils des haut-parleurs intégrés l'aux bornes des haut-parleurs parleurs intégrés pas l'els des haut-parleurs intégrés de l'appareil parleque un fil négatif commun (-) pour les l'appareil parleque un fil négatif commun (-) pour les haut-parleurs droit et gauche.

 Ne raccorder pas entre eux les cordons des haut-parleurs de l'appareil.

Precauciones

- Precauciones

 Esta unidad ha sido diseñada para alimentarse
 con 12 V CC, negativo a masa, solamente.

 No cole los cables debajo de ningún formillo,
 no septidos compartes móviles (p.ej. los rafles
 del asiento).

 Antes de realizar las conexiones, desconecte el
 terminal de puesta a masa de la batería del
 automóvil a fin de evitar cortocircuitos.

 Conecte los cables de entrada de alimentación
 amarillo y rojo solamente después de haber
 conectado los demás.

 Conecte todos los conductores de puesta a
 masa a un punto común.

- Por razones de seguridad, asegúrese de aislar con cinta eléctrica los cables sueltos que no estén

- conectados.

 Notas sobre el cable de suministro de alimentación (amarillo)

 Cuando conecte esta unidad en combinación con otreo componentes estóreo, la capacidad nominal del circuito conectado del automóvil debe ser superior a la suma del fusible de cada componente.

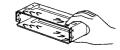
 Si no hay circuitos del automóvil con capacidad nominal sudicientemente alta, conecte la unidad directamente a la batería.

Lista de componentes (FI)

Los números de la lista corresponden a los de las

Con respecto al uso de la llave de liberación @, consulte el manual de instrucciones suministrado.

Precaución
Tenga mucho cuidado al manipular el soporte ①
para evitar posibles lesiones en los dedos.



Ejemplo de conexiones (2)

Notas (2-A)
Asegúrese de con
masa antes de rei ectar primero el cable de puesta a lizar la conexión al amplificador.

Consejo (**2**-8-**6**) Si desea conectar dos o más cambiadores, necesitará el selector de fuente XA-C30 (opcional).

Diagramas de conexión (3)

A una superficie metálica del automóvil
Conecte primero el cable de mesa negro, y
después los cables amarillo y rojo de entrada
de alimentación.

- Al cable de control de la antena motorizada o al cable de fuente de alimentación del amplificador de antena
- de antena
 Notas
 Sino se dispone de antena motorizada ni de
 Sino se dispone de antena, o se utiliza una antena
 amplificador de antena, o se utiliza una antena
 telescopica accionada manualmente, no será
 necesario conecta este acibe.
 Si el automówil incorpora una antena de FM/AM en
 el cristal traserollataria, consulta "Notas sobre los
 el cristal traserollataria, consulta "Notas sobre los
 el cristal traserollataria, consulta "Notas sobre los
 el cristal traserollataria, de la cristal traserollataria
 porte de potenda opocional
 Este conexión de cualquier otra sistema puede dariar
 la unidad.
 Al cable de interfaz de un telefono para automóvil
- Al cable de interfaz de un teléfono para automóvil
- A una señal de iluminación del automóvil Asegúrese de conectar primero el cable de masa
- negro.

 Al terminal de alimentación de +12 V que recibe energia en la posición de accesorios del interruptor de la llave de encendido

- Motas

 Si no hay posición de accesorios, conéctelo al terminal de alimentación (bateria) de +12 V que recibe energia sin interrupción. Asegúries de recibe energia sin interrupción. Asegúries de 15 el automobil incorpor aure antena de EMAM en el cirstal traserollateral, consulte: Notas sobre los cubles de control y de fuente de alimentación.

 Al terminal de alimentación de +12 V que recibe energia sin interrupción

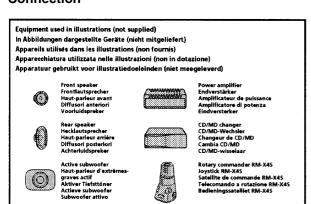
 Asegúrese de conectar primero el ceble de masa negro.

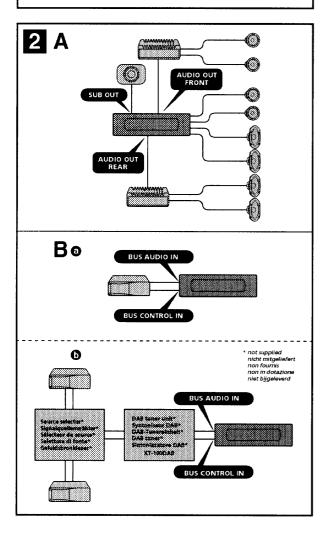
Notas sobre los cables de control y de fuente de

- alimentación El conductor de control de la antena motorizada (azul) suministrará +12 V CC cuando conecte la alimentación del sintonizador.
- del sintonizador. Si el automóvi dispone de una antena de f.MAM incorporada en el crisal traserollateral, conecte o cabie de control de antena motorizada (azul) el cabie de entrada de alimentación auxiliar (rigo) al terminal de alimentación de amplificador de ante comunite a su proveedor. Con esta unidad no es posible utilizar una antena motorizada sin caja de relé. Ponestán onas protección de la memoria

Con esta unidad no es posible utilizar una antena motorizada no raja de rela (
 Conexión para protección de la memoria Si conecta el conductor de entrada amarillo, el circuito de la memoria recibirá siempre alimentación, inclaso aurque ponga la llave de encendido en la posición OFF.
 Notas sobre la conexión de los altavoces
 Antes de conectar los altavoces, desconecte la alimentación de la unidad.
 Antes de conectar los altavoces, desconecte la alimentación de la unidad.
 No ten en la capacidad de potencia adecuada para evitar que se dañen.
 No conecte los terminales de altavoz al chasis del automóvil, ni conecte los terminales del altavoz derecho con los del requierdo.
 No conecte los terminales de altavoz al chasis del automóvil, ni conecte los terminales del altavoz derecho con los del requierdo.
 No intente conectar los altavoces en paralelo.
 Conecte solamente altavoces pasivos. Si conecta altavoces activos (con ampificadores incorporado) a los terminales de altavoz, puede dañar la unidad.
 Conecte solamente altavoces que paralelo.
 conecte solamente altavoces con paralelo.
 conecte solamente altavoces descrebo e izquierado, comm (-) para los altavoces derecho e izquierado.
 No conecte los cables de altavoz de la unidad entre sí.

AEP, UK, E MODEL Connection





Cautions

- This unit is designed for negative earth 12 V DC

- This unit's designation regardle earth 12 v Octoperation only.

 Do not get the wires under a screw, or caught in moving parts (e.g. seaf railing).

 Before making connections, turn the car ignition off to avoid short circuits.

 Connect the power connecting cord ⑥ to the unit and speakers before connecting it to the auxiliary power connector.
- and speakers before connecuing power connector. Run all earth wires to a common earth point. Be sure to insulate any loose unconnected wires with electrical tape for safety.

- Notes on the power supply cord (yellow)

 *When connecting this unit in combination with
 other steres components, the connected car
 circuit's rating must be higher than the sum of
 each component's fuse.

 *When no car circuits are rated high enough,
 connect the unit directly to the battery.

Parts list (11)

The numbers in the list are keyed to those in the instructions.

For the use of release key \mathfrak{D} , see the supplied operating instructions

Caution
Handle the bracket ① carefully to avoid injuring your fingers.



Connection example (2)

- Notes (R-A)

 Be sure to connect the earth cord before connecting the amplifier.

 If you connect an optional power amplifier and do not use the built-in amplifier, the beep sound will be deactivated.

Tip (**21-8-6**)

For connecting two or more CD/MD changers, the source selector XA-C30 (optional) is necessary.

Connection diagram (3)

To AMP REMOTE IN of an optional power

ampinier
This connection is only for amplifiers. Connecting any other system may damage the unit.

To the interface cable of a car telephone

If you have a power aerial without a relay box, connecting this unit with the supplied power connecting cord (a) may damage the aerial.

- Notes on the control leads

 The power aerial control lead (biue) supplies +12 V DC when you turn on the tuner or when you carn on the tuner or when you carn on the tuner or when you carn on the tuner or when your carn the built in FMM/W/W we senial in the rear/wide glass, cornect the power aerial control lead (blue) or the accessory power input lead (real) to the power terminal or the existing aerial booster. For details, consult your dealer. A power aerial without a relay box cannot be used with this unit.

Memory hold connection When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

- were your suppried to the memory circuit even when the ignition switch is turned off.

 Notes on speaker connection

 Before connecting the speakers, turn the unit off.

 Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.

 Do not connect the terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.

 Do not connect the earth lead of this unit to the regardue (-) terminal of the speaker.

 Do not atompt to connect the speakers in parallel.

 Connect only partie to connect the speakers in parallel.

 Connect only parallel of the speaker terminals may damage the unit.

 To avoid a malfunction, do not use the built-in speaker wires installed in your car if the unit shares a common negative (-) lead for the right and left speakers.
- Do not connect the unit's speaker cords to each

Vorsicht

- Vorsicht

 Diese Gerat ist ausschließlich für den Betrieb bei 12
 V Gleichsterm (negative Erdung) bestimmt.
 Achten Sie darauf, alls die Kabel nicht unter einer Schraube oder zwischen beweglichen Teilen wie z.
 B. in einer Sitzschiene eingeklemmt werden.
 Schalten Sie, bevor Sie igendwicklich Anschlüsse vorsichmen, die Zündung des Fahrzeugs aus, um Kurzschlüsse zu vermeiden.
 Verbinden Sie das Stromversorgungskabel @ mit dem Gerät und den Lautsprechen, bevor Sie es mit dem Hilfsstromanschluß verbinden.
 Schließen Sie alle Erdungskabel an einen gemeinsamen Massepunkt an.
 Aus Sicherheitelgründen mussen alle leeen, nicht angeschlössenen Drähte mit Isolierband abisoliert werden.

Hinweise zum Stromversorgungskabel (gelb)

- Hinweise Zum Strömweisorgungskabel (gelb)

 "Wem Sie dieses Gerät zusamenne mit anderen
 Stereokomponenten anschließen, muß der
 Autustromkreis, an den die Greite angeschlossen
 sind, eine höhere Leistung aufweisen als die Summe
 der Sicherungen der einzelnen Komponenten.
 Wenn kein Autostronkreis eine so höhe Leistung
 aufweist, schließen Sib das Gerät direkt an die
 Batterie an.

Teileliste (11)

Die Nummern in der Liste sind dieselben wie im Erläuterungstext.

Wie Sie den Löseschlüssel (verwenden, schlagen Sie bitte in der mitgelieferten Bedienungsanleitung nach.

Seien Sie beim Umgang mit der Halterung ① vorsichtig, damit Sie sich nicht die Hände verletzen.



Anschlußbeispiel (2)

Himweise (E-A)
Himweise (E-A)
Schließen sie unbedingt zuerst das Massekabel an, bevor Sie den Verstarker anschließen.
Wenn Sie einen gesondert erhaltlichen Endwartärker anschließen und den integrierten Verstarker nicht benutzen, wird der Signalton de aktiviert.

Tip (**2.8-8-0**) Zum Anschließen von zwei oder mehr CD/MD-Wechslern wird der gesondert erhältliche Signalquellenwähler XA-C30 benötigt.

Anschlußdiagramm (3)

An AMP REMOTE IN des gesondert erhältlichen Endwerstärkers
Dieser Anschluß ist ausschließlich für Verstärker gedecht. Schließen ise nichts anderes daran an. Andernfalls kann des Gerät beschädigt werden.

 An Schnittstellenkabel eines Autotelefons

Warnung
Wenn Sie eine Motorantenne ohne Relaiskästchen
verwenden, kann durch Anschließen dieses Geräts
mit dem mitgelieferten Stromversorgungskabel (1)
die Antenne beschädigt werden.

- die Antenne beschädigt verden.

 Hinweise zu den Stausrieltungen

 Die Motorantennen-Steuerietung (blau) liefert

 12 V Gleichstrom, wenn Sie den Tuner einschalten

 oder die Af- (Alternativfrequenssuche) oder die TAFunktion (Verkehrsdunchsagen) aktivieren,
 Wenn das Fahrzeug mit einer in der Heck/
 Seitenfensterscheibe integrerten FM (UKW)/MW/
 Wickenstromens-Steuerietung (blau) oder die
 Motorantennen-Steuerietung (blau) oder die
 Zubehörstromersorgungsanschluß des vorhandenen
 Antennenversträkers an. Mehres dazu erfahren Sie
 bei Ihrem Händler.

 Es känn nur eine Motorantenne mit Relaiskästchen
 angeschlossen werden.

Wenn das gelbe Stromversorgungskabel angeschlossen ist, wird der Speicher stets (auch bei ausgeschalteter Zündung) mit Strom versorgt.

- ausgeschalteter Zürdung mit Strom versorgt.

 Hinweise zum Lautsprecheranschluß

 schalten Sie das Gerät aus, bevor Sie die
 Lautsprecher anschließen.

 Verwenden Sie Lautsprecher mit einer Impedanz
 zwischen 4 und 8 Ohm und ausrachender
 Belastbarkeit. Ansonsten können die Lautsprecher
 beschädigt werden.

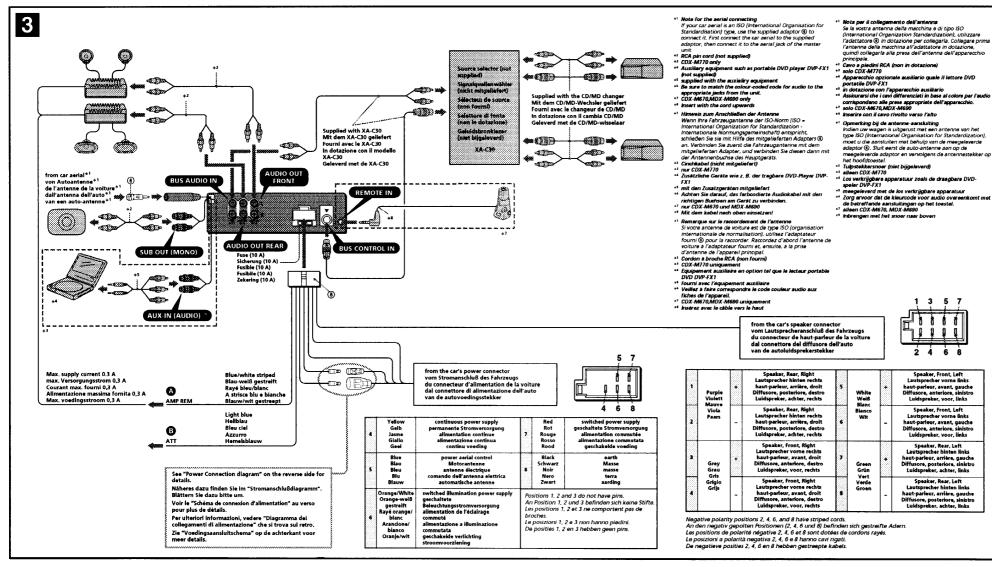
 Verbinden Sie die Lautsprecheranschlüsse nicht mit
 dem Wagenchassis, und verbinden Sie auch nicht die
 Anschlüsse des rechten mit denen des linken
 Lautsprechers.

 Verbinden Sie die Masseleitung dieses Geräts nicht
 mit dem negativen (-) Lautsprecheranschluß

 Versuchen Sie nicht, Lautsprecher parallel
 anzuschließen.

 An die Lautsprecheranschlüsse dieses Ceräts dürfen

- Versichen Sie nicht, Lautsprecher perannen anzuschließen.
 An die Lautsprecher angeschlössen werden.
 Schließen Sie keine Aktivieutsprecher (Lautsprecher Schließen Sie keine Aktivieutsprecher (Lautsprecher Beschädigt werden können.
 Juff Fahlfunktionen zu vermeiden, verwenden Sie nicht die im Fahrzeu (installierten, integrierten Lautsprecherleitungen, wenn am Ende eine gemeinsame negative (-) Leitung für den nechten und den linken Lautsprecher verwendet wird.
 Verbinden Sie nicht die Lautsprecherkabel des Geräts miteinander.



Précautions

- Cet appareil est conçu pour fonctionner sur courant continu de 12 V avec masse négative.
 Evitez de fixer des vis sur les cables ou de coincer ceux-ci dans des pièces mobiles (par exemple, armature de siège).
 Avant d'effectuer des raccordements, éteignez le moteur pour éviter les courts-circuits.
 Branchez le cordon d'alimention @ sur l'appareil et les haut-parleurs avant de le brancher sur le connecteur d'alimentation auxiliaire.
- Rassemblez tous les fils de terre en un point de
- Veillez à isoler avec du chatterton tout fil lâche
- Remarques sur le cordon d'alimentation (jaune)

 Lorsque cet appareil est raccordé à d'autres éléments sécréo, la valeur nominale des circuits de la voiture raccordée doit être supérieure à la somme des fusibles de chaque élément.

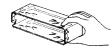
 Si aucun circuit de la voiture n'est assez puissant, raccordez directement l'appareil à la batterie.

Liste des composants (11)

Les numéros de l'illustration correspondent à ceux des instructions.

Attention

Manipulez précautionneusement le support ①
pour éviter de vous blesser aux doigts.



Exemple de raccordement (2)

Remarques (21-A)

Raccordez d'abord le fil de masse avant de raccorder l'amplificateur.

Si vous raccordez un amplificateur de puissance

Consell (2.8-0)
Dans le cas du raccordement de deux changeurs de CD/MD ou plus, leviecteur de source XA-C30 (en option) est indispensable.

Schéma de raccordement (R)

Au niveau du AMP REMOTE IN d'un amplificateur de puissance facultatif
Ce raccordement existe seulement pour les
amplificateurs. Le raccordement à tout autre
système peut endommager l'appareil.

B Vers le cordon de liaison d'un téléphone de

Avertissement

Neer ussernent
Si vous disposez d'une antenne électrique sans
bottier de relais, le branchement de cet appareil au
moyen du cordon d'alimentation fourni ① risque
d'endommager l'antenne.

- d'endommager l'antenne.

 Remarques sur les fils de contrôle

 Le fil de commande (bleu) de l'antenne electrique
 assure une alimentation de +12 V CC lorsque vous
 mettaz le syntoniseur sous tersion ou lorsque vous
 activez le fonction AF (fréquence secondaire) ou
 TA (informations routières)
 Lorsque votre voiture est équipée d'une antenne
 FMMANU Wi intégrée dans la vitre artirelatérale,
 raccordez le sortue de commande de l'antenne
 (bleu) ou l'entrée d'alimentation des accessores
 (rouge) au bornier de l'amplificateur d'antenne
 eus tent. Pour plus de détails, corsuitez votre
 reverdeur.

Raccordement pour la conservation de la mémoire Lorsque le fil d'entrée d'alimentation jaune est raccordé, le circuit de la mémoire est alimenté en permanence même si la clé de contact est sur la position d'arrêt.

Remarques sur le raccordement des haut-parleurs

• Avant de raccorder les haut-parleurs, mettez

Remarques sur le raccordement des haut-parleurs
- Avant de raccorder les haut-parleurs, mettez
l'appareil hors tension.
Lullisar des haut-parleurs ayant une impédance de
4 à 8 obrns avec une capacité de manipulation
adéquate pour éviter de les endommager.
Ne raccordez pas les bornes du système de hautparleurs au chasis de la voture et ne raccordez
pas les bornes du haut-parleur droit à celles du
naut-parleur gauche.
Ne source gauche.
N'essayer pas de raccorder les haut-parleurs en
parallele.
N'essayer pas de raccorder les haut-parleurs en
parallele.
N'essayer pas de raccorder les haut-parleurs passifs.
Le raccordement de haut-parleurs actifs (avec
amplificateurs intégrés laut bornes des hautparleurs peut endommager l'appareil.
Pour éviter tout dysfonctionmement, n'utilisez pas
les fils des haut-parleurs intégrés installés dans
votre voture u l'appareil partage un fil inégatif
commun (-) pour les haut-parleurs droit et gauche.
Ne raccordez pas entre eux les cordons des hautparleurs de l'appareil.

Attenzione

Questo apparecchio è stato progettato per l'uso solo a 12 V CC con massa negativa.
 Evitare che i cavi rimangano bloccati da una vite o incastrati nelle parti mobili (ad esempio nelle guide constructi, Licia dello.)

orreveli dei sedili)

Prima di effettuare i collegamenti, spegnere il motore dell'automobile onde evitare di causare

initate del alumente en la evitate un tausare cortecircuit.

• Collegare il cavo di collegamento dell'alimentazione dell'alimentazione di all'apparecchio e ai diffusori prima di collegarlo al connettore di alimentazione ausiliare.

• Portare tutti i cavi di massa a un punto di massa comune.

 Per sicurezza, assicurarsi di isolare qualsiasi cavo non collegato mediante apposito nastro.

Note sul cavo di alimentazione (giallo)

Se questo apparecchio viene collegato con altri componenti stereo, la potenza nominale dei circuiti dell'automobile deve essere superiore a quella prodotta dalla somma dei fusibili di ciascun

componente.

Se la potenza nominale dei circuiti dell'automobile non è sufficiente, collegare l'apparecchio direttamente alla batteria.

Elenco dei componenti (11)

I numeri nella lista corrispondono a quelli riportati nelle istruzioni

Per informazioni sull'utilizzo del tasto di rilascio

(B), vedere le istruzioni per l'uso in dotazione. Attenzione

Maneggiare la staffa ① con cautela per evitare di ferirsi le mani.



Esempi di collegamento (2)

Note (M.A)

- Assicurarsi di collegare il cavo di terra prima di collegare l'apparecchio all'amplificatore.

- Se si collega un amplificatore di potenza opzionale e non si utilizza l'amplificatore incorporato, il segnale acustico verra disattivato.

Suggerimento (22-8-13)
Per collegare due o più cambia CD/MD, si deve utilizzare il selettore di fonte XA-C30 (opzionale).

Schema di collegamento (3)

A AMP REMOTE IN di un amplificatore di potenza opzionale Questo collegamento è riservato esclusivamente agli amplificatori. Non zollegare un tipo di sistemo diverso onde evitare di causere danni all'apparacchio.

Avvertenza

Quando si collega l'apparecchio con il cavo di alimentazione in dotazione (a), si potrebbe danneggiare l'antenna elettrica se questa non ha la scatola di relè.

~auna di Tette.
Note sui cavi di controllo
- il cavo di controllo dell'antenna elettrica (biu)
fornisce corrente continua - 12 V CC quando si
accende il sitronizzatora o quando si attiva la
funzione AF (frequenza alternativa) o TA
(nottizino sui traffico).

Se l'automobile è dotata di antenna FM/MW/LW Sel automobile e dotata di antenna FIMAWW.W incorporata nel vetro posteriorelaterale, collegare il cavo (biu) di controllo dell'antenna elettrica o il cavo (rosso) di ingreso dell'altenna latore o potionale al terminale di alimentazione del praempilificatore dell'artenna estente Per utteriori informazioni, consultare il proprio fornitore. Non e possibile usare un'antenna elettrica senza scatola a rela con questo apparecchio.

Collegamento per la conservazione della memoria Quando il cavo di ingresso alimentazione giallo è collegato, viene sempre fornita alimentazione al circuito di memoria anche quando la chiavetta a accensione è spenta.

Note sul collegamento dei diffusori • Prima di collegare i diffusori spegnere l'apparecchio. • Usare diffusori di impedenza compresa tra 4 e 8 ohm e con capacità di potenza adeguata.

osare unissant impetenta cumpeten a università dei controlo con capacità di potessa a deguate menggiati.
Non collegare i terrinali del sistema diffisori al telalo dell'auto e non collegare i terrinali del diffisore destro a quelli del diffusore sinistro.
Non collegare i cavo di terra di questo apparecchio al terrinale negativo (-) del diffusore.
Non collegare alcun diffusora ettivo (con amplificatore incorporato) a terrinali del diffusori dell'apparecchio perché si potrebbero dameggiare diffusori passivia questi terrinali.
Per evitare problemi di funzionamento, non utilizzare i cavi dei diffusori incorporato problemi di funzionamento in tallati mell'automobile se il terrinale dell'apparecchio condivide un cavo comune negativo (-) per i diffusori diffusori di una comune negativo (-) per i diffusori destro e sinistro.

Let op!

- geaard.

 Zorg ervoor dat de draden niet onder een schroef of ussen bewegende onderdelen (b.v. zetelrail) erechtkomen.
- Alvorens aansluitingen te verrichten moet u het
- Autories aansuuringen te verrinder met oor contact afzetten om kortsluuting te verrinjden.
 Sluit het netsnoer ⊕ aan op het toestel en de luidsprekers vooraleer u het op de hulpveedingsaansluuting aansluit.
 Sluit alle aarddraden op een gemeenschap aardount aan.
- Suit alle sardraden op een gemeenstr aardpunt aan,
 Voorzie niet aangesloten draden om veiligheidsredenen altijd van isolatietape.

Opmerkingen bij de voedingskabel (geel) • Wanneer u dit toestel aansluit samen met andere

Vanneer u dit toestel aansluit samen met andere componenten, meet het vermogen van de aangesloten autostroomkring groter zijn dan de som van de zekeringen van elke component afzonderlijk.
 Vanneer het vermogen ontoereikend is, meet u het toestel rechtstreeks aansluiten op de batterij.

Onderdelenlijst (11)

De nummers in de albeelding verwijzen naar die in de montage-aanwijzingen. Raadpleeg de meegeleverde gebruiksaanwijzing om de speciale sleutel te bedienen (\$\mathbf{G}\$).

Voorzichtig Houd de beugel ① voorzichtig vast zodat u uw



Voorbeeldaansluitingen (2)

Opmerkingen (B-A)

• Sluit eerst de massakabel aan alvorens de versterker aan te sluiten.

Als u een los verkrijgbare vermogensversterker aansluit en de ingebouwde versterker niet gebruikt, is de pieptoon uitgeschekeld.

Tip ([2-8-8)

Om twee of meer CD/MD-wisselears aen te sluiten, hebt u de geluidsbronkiezer XA-C30 (optioneel)

Aansluitschema (3) Naar AMP REMOTE IN van een los verkrilgbare

vermogensversterker Deze aansluiting is alleen bedoeld voor versterkers. Door een ander systeem aan te sluiten kan het toestel worden beschadigd.

Naar het Interface-snoer van een autotelefoon

Opgelet

dien u een elektrische antenne heeft zonder

relaiskast, kan het aansluiten van deze eenheid met het bijgeleverde netsnoer ® de antenne beschadiger

het bigeleverde netsnoer @ de antenne beschadigen Opmerking betreffende de aanskultsnoeren De voedingskabel (blauw) van de alektrisch bediende antenne levert - 12V gelijkstroom wanneer u de tuner aanschaekt of de functe Af (Alternative Frequency) of TA (Fraffic Announcement) activeert.
Wanneer uw auto is uitgerust met een FMMW/ LW-antennein de achternuit/voornuit, moet u de antennevoedingskabel (blauw) of de hulpvoedingskabel (rod) aansluiten op de voedingsingang van de bestaande antenneversierker. Raadpleeg uw dealer voor meer details.

meer details. Met dit apparaat is het niet mogelijk een zonder relaishuis te

Instandhouden van het geheugen Zolang de gele stroomdraad is aangesloten, blijft de stroomvoorziening van het geheugen intact, ook wanneer het contact van de auto wordt uitgeschakeld.

Opmerkingen betreffende het aansluiten van de kildsprekers

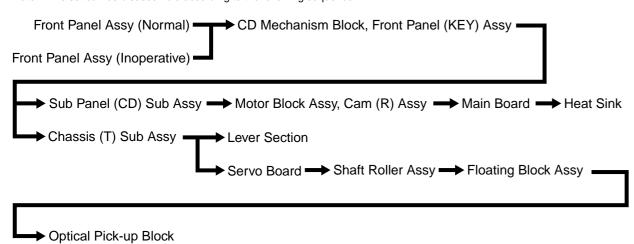
luldsprekers -Zorg dat het apparaat is uitgeschakeld, alvorens de luidsprekers aan te sluiten -Gebruik luidsprekers met een impedantie van 4 tot 8 Ohm en let op dat die het vermogen van de

8 Ohm en let op dat die het vermogen van de versterker kunnen verwerken. Als dit wordt verzumd, kunnen de luidsprekers ernstig beschadigd raken.
• Verbind in geen geval de aansluitingen van de huidsprekers met het chassiv and de auto en sluit de aansluitingen van de rechter en linker luidspreker niet op eikar aan.
• Verbind de massakabel van dit toestel niet met de neoastieve 1- aansluiting van de luidspreker

Frobeer mon. Go. Go. Suiten.
sluiten.
Sluit geen actieve luidsprekers (met ingebouwde
Sluit geen actieve luidspreker-aansluiting va Suit geen actieve luid lapreker (imst ingebouwde wrsterker) aan jud sjurkerker-aansluiting van dit apparaat. Dit zel keiden tot beschadiging van de actieve luidspreker. Suit dus altijd uitsuitend luidsprekers zonde ingebouwde versterker aan. Om defecten te vermijden meg de bestaande luidsprekerbedrading in uw auto niet gebruiken wanneer ein en gemeenzbappelijke negatieve (draad is voor de rechter en linker luidsprekers.) Verbind de luidsprekers.

SECTION 2 DISASSEMBLY

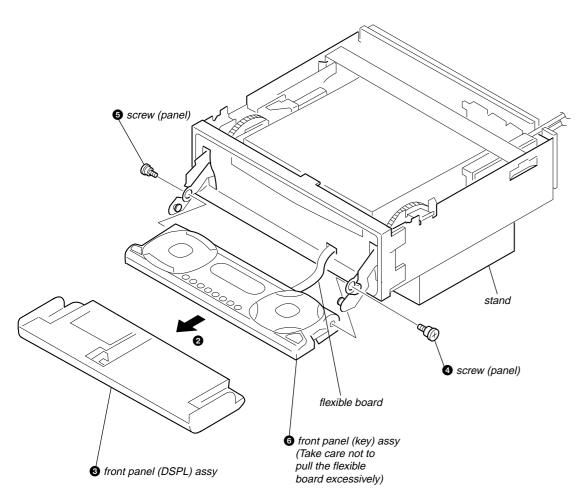
Note: This set can be disassemble according to the following sequence.



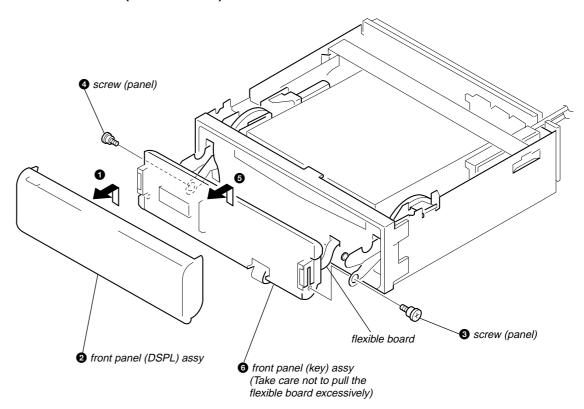
Note: Follow the disassembly procedure in the numerical order given.

2-1. FRONT PANEL ASSY (NORMAL)

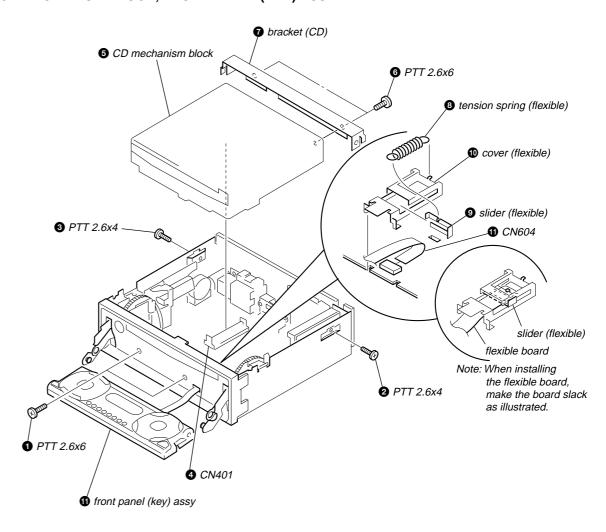
1 Turn on the power and open the front panel.



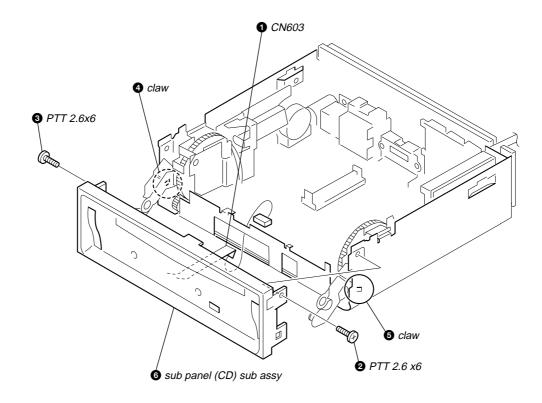
2-2. FRONT PANEL ASSY (INOPERATIVE)



2-3. CD MECHANISM BLOCK, FRONT PANEL (KEY) ASSY

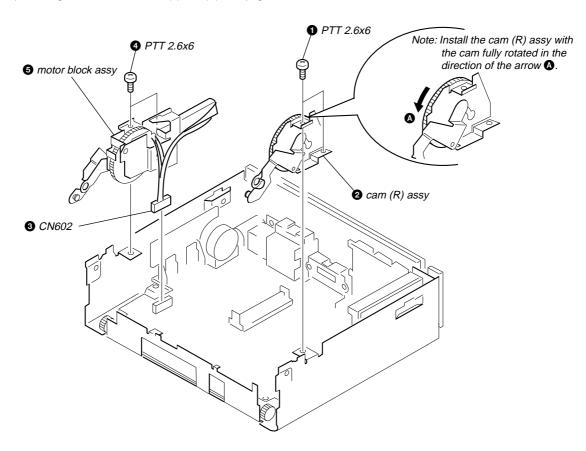


2-4. SUB PANEL (CD) SUB ASSY

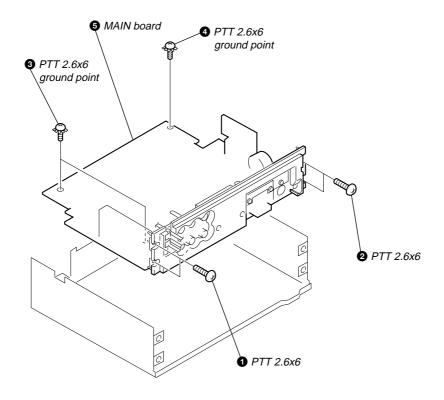


2-5. MOTOR BLOCK ASSY, CAM (R) ASSY

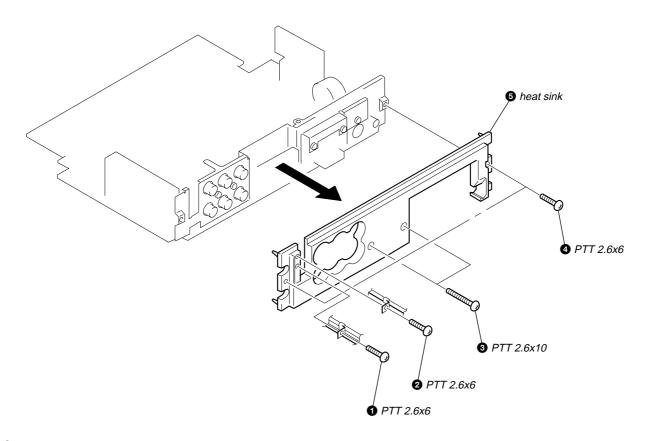
Note: Install the motor block assy and cam (R) assy in this roder. For phase alignment between cams (L) and (R), see page 22 and 24.



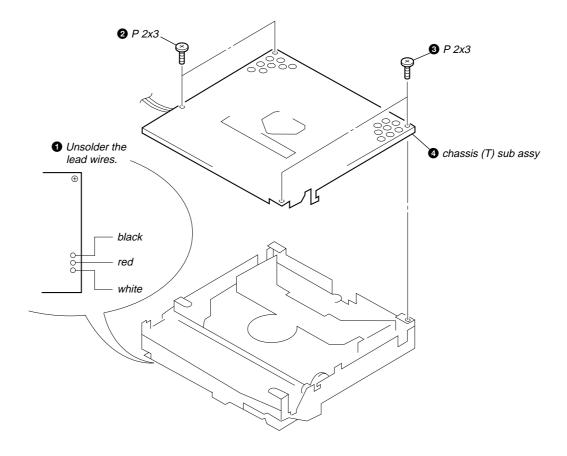
2-6. MAIN BOARD



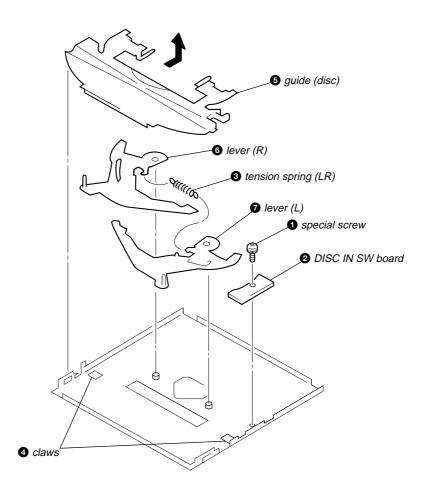
2-7. HEAT SINK



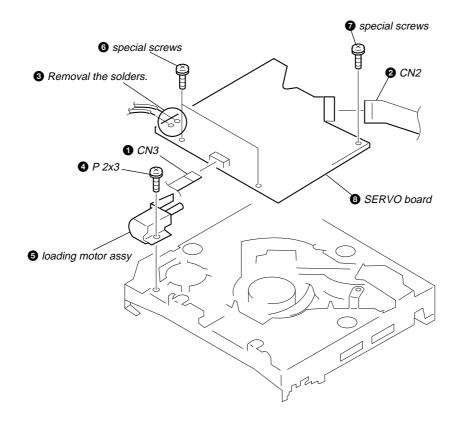
2-8. CHASSIS (T) SUB ASSY



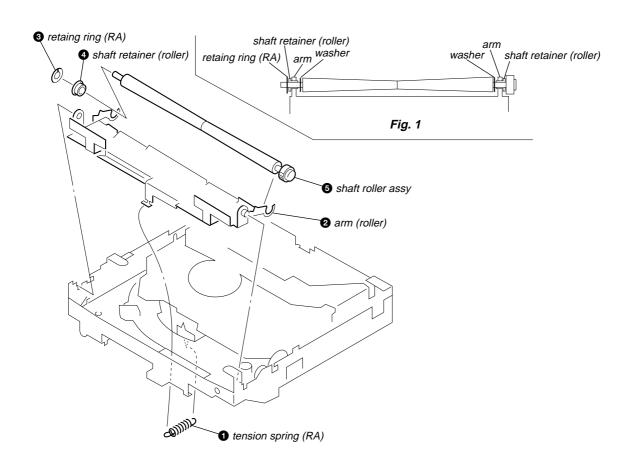
2-9. LEVER SECTION



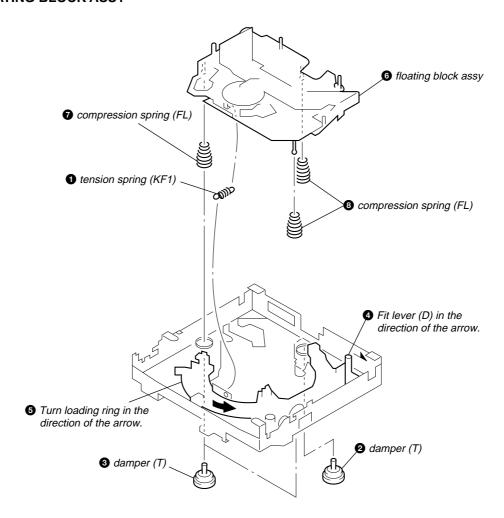
2-10. SERVO BOARD



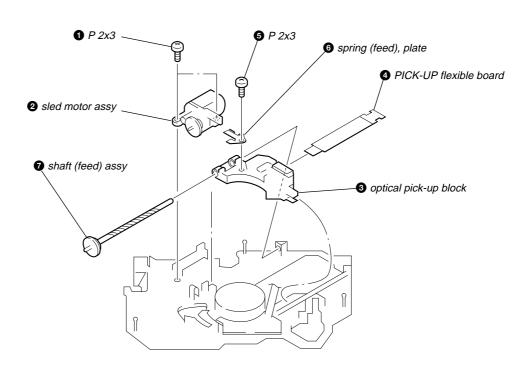
2-11. SHAFT ROLLER ASSY



2-12. FLOATING BLOCK ASSY

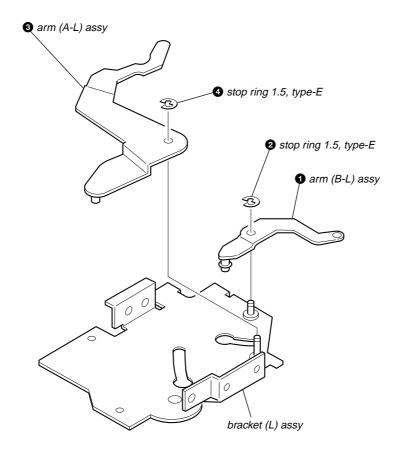


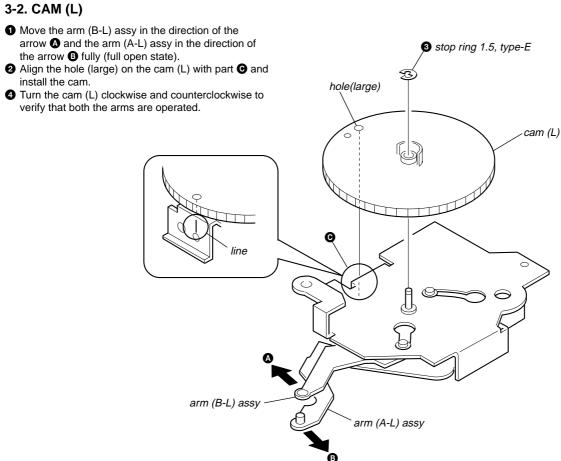
2-13. OPTICAL PICK-UP BLOCK



SECTION 3 PHASE ALIGNMENT

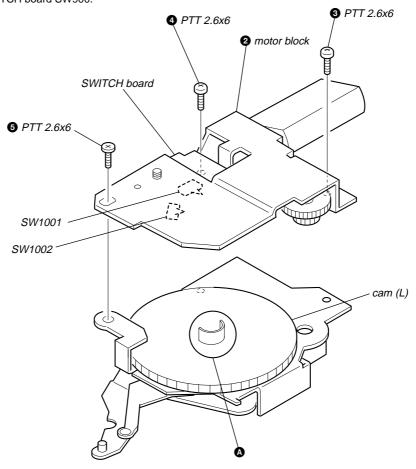
3-1. ARM (A-L) ASSY, ARM (B-L) ASSY





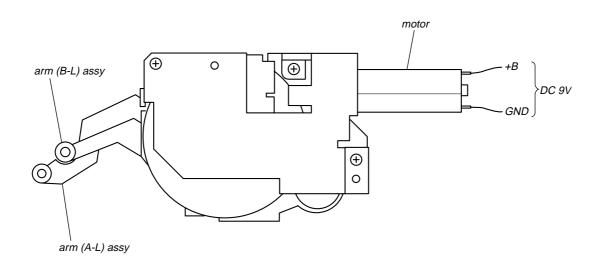
3-3. MOTOR BLOCK

● Turn the cam (L) and position the cam so that part ♠ does not touch the SWITCH board SW900.

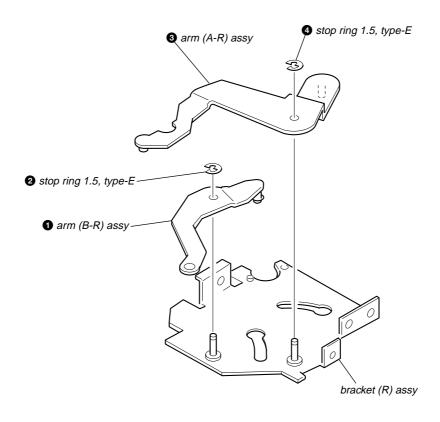


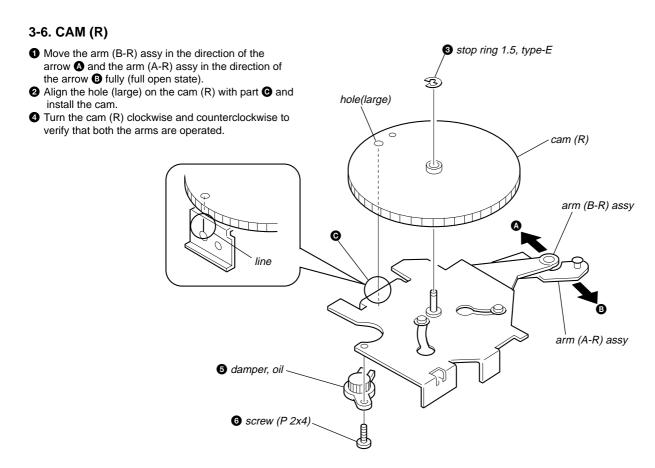
3-4. ALIGNMENT BETWEEN ARM (A-L) ASSY AND ARM (B-L) ASSY

- Input 9V DC to the motor terminal until the cam (L) stops rotating.
 - Take care to avoid overload of the motor.
- ② Verify that the arm (A-L) assy and arm (B-L) assy are positioned as shown below (full open).



3-5. ARM (A-R) ASSY, ARM (B-R) ASSY





SECTION 4 DIAGRAMS

4-1. IC PIN DESCRIPTIONS

• IC501 CXD2598Q (DIGITAL SERVO, DIGITAL SIGNAL PROCESSOR) (SERVO BOARD)

Pin No.	Pin Name	I/O	Pin Description
1	DVDD	_	Digital power supply pin
2	DVSS	-	Digital ground
3	SOUT	0	Servo brock serial data output (Not used.)
4	SOCK	О	Servo brock serial data read clock output (Not used.)
5	XOLT	О	Servo brock serial data latch output (Not used.)
6	SQSO	О	Sub Q 80 bit, PCM peak and level data output. CD TEXT data output
7	SQCK	I	Clock input from SQSO read out.
8	SCSY	I	Fixed at "L".
9	SBSO	О	Serial output of sub-P to W. (Not used.)
10	EXCK	I	Clock input from SBSO read out. (Fixed at "L")
11	XRST	I	System reset ("L": Reset)
12	STSM	I	System mute input (Fixed at "L")
13	DATA	I	Serial data input from CPU.
14	XLAT	I	Latch input from CPU. Latch serial data at the falling edge.
15	CLOK	I	Serial data transfer clock input from CPU.
16	SENS	0	SENS output for CPU.
17	SCLK	I	Clock input from SENS serial data read.
18	ATSK	I/O	Input/output for anti-shock.
19	WFCK	0	WFCK (Write Flame Clock) output (Not used.)
20	XUGF	0	XUGF output (Not used.)
21	XPCK	0	XPCK output (Not used.)
22	GFS	0	GFS output
23	C2PO	0	C2PO output (Not used.)
24	SCOR	0	"H" output at either detection, sub code sync S0 or S1.
25	C4M	0	4.2336 MHz output (Not used.)
26	WDCK	0	Word clock output f=2Fs (Not used.)
27	COUT	I/O	Track number count signal input/output (Not used.)
28	MIRR	I/O	Mirror signal input/output (Not used.)
29	DVSS		Digital ground
30	DVSS		Digital power supply pin
31	DFCT	I/O	Diffect signal input/output (Not used.)
			Focus OK signal input/output
32	FOK	I/O	
33	PWM1	I	External control input of spindle motor.
34	LOCK	I/O	Lock signal input/output
35	MDP	0	Servo control output of spindle motor.
36	SSTP	I	Disc most inner track detection signal input
37	FSTIO	I/O	2/3 frequency division input/output of pins (a) and (b). (Not used.)
38	SFDR	0	Sled drive output
39	SRDR	0	Sled drive output
40	TFDR	0	Tracking drive output
41	TRDR	0	Tracking drive output
42	FFDR	0	Focus drive output
43	FRDR	О	Focus drive output
44	DVDD	<u> </u>	Digital power supply pin
45	DVSS	<u> </u>	Digital ground
46	TEST	I	Test pin (Fixed at "L".)
47	TES1	I	Test pin (Fixed at "L".)
48	XTSL	I	X'tal select input ("L": 16.9344 MHz, "H": 33.8688 MHz)
49	VC	I	Center voltage input
50	FE	I	Focus error signal input
51	SE	I	Sled error signal input

Pin No.	Pin Name	I/O	Pin Description
52	TE	I	Tracking error signal input
53	CE	I	Center servo analog input
54	RFDC	I	RF signal input
55	ADIO	О	Test pin (Not used.)
56	AVSSO	_	Analog ground
57	IGEN	I	Constant current input from OP amplifier.
58	AVDDO		Analog ground
59	ASYO	О	EFM full-swing output ("L": VSS, "H": VDD)
60	ASYI	I	Asymmetry comparate voltage input
61	RFAC	I	EFM signal input
62	AVSS3	_	Analog ground
63	CLTV	I	VCO control voltage input from master.
64	FILO	О	Filter output for master PLL. (slave=digital PLL)
65	FILI	I	Filter input from master PLL.
66	PCO	О	Charge pump output for master PLL.
67	AVDD3		Analog power supply pin
68	BIAS	I	Asymmetry circuit constant current input
69	VCTL	I	VCO2 control input from wideband EFM PLL.
70	V16M	О	VCO2 oscillator output for wideband EFM PLL. (Not used.)
71	VPCO	О	Charge pump output for wideband EFM PLL. (Not used.)
72	DVSS		Digital ground
73	MD2	I	Digital out ON/OFF control input ("L": OFF, "H": ON)
74	DOUT	О	Digital out output
75	ASYE	I	Asymmetry circuit ON/OFF input ("L": OFF, "H": ON)
76	DVDD		Digital power supply pin
77	LRCK	О	D/A interface LR clock output (f=Fs)
78	LRCKI	I	D/A interface LR clock input
79	PCMD	О	D/A interface serial data output (2's COMP, MSB fast)
80	PCMD	I	D/A interface serial data input (2's COMP, MSB fast)
81	BCK	О	D/A interface bit clock output
82	BCKI	I	D/A interface bit clock input
83	EMPH	О	Emphasis ON/OFF signal output
84	EMPHI	I	Emphasis ON/OFF signal input ("H": ON, "L": OFF)
85	XVDD	_	Power supply for master clock.
86	XTAI	I	X'tal oscillator input from master clock (16.9344 MHz).
87	XTAO	О	X'tal oscillator output for master clock (16.9344 MHz). (Not used.)
88	XVSS		Ground pin for master clock.
89	AVDD1		Analog power supply pin
90	AOUT1	О	Lch analog output (Not used.)
91	AIN1	I	Lch OP amplifier input (Not used.)
92	LOUT1	О	Lch LINE output (Not used.)
93	AVSS1		Analog ground
94	AVSS2		Analog ground
95	LOUT2	О	Rch LINE output (Not used.)
96	AIN2	I	Rch OP amplifier input (Not used.)
97	AOUT2	О	Rch analog output (Not used.)
98	AVDD2		Analog power supply pin
99	RMUT	О	Rch "0" detect Flug (Not used.)
100	LMUT	О	Lch "0" detect Flug (Not used.)

• IC5 CXP84640-072Q (CD SYSTEM CONTROL) (SERVO BOARD)

Pin No.	Pin Name	I/O	Pin Description
1	ITRPT	_	Not used in this set.
2, 3			Not used in this set.
4, 5	NCO	_	Not used in this set.
6	OPEN	I	Front panel open detection input
7	CLOSE	0	Front panel close control output
8	LINKOFF	I	Bus interface link input
9	NCO	_	Not used in this set.
10	D SW	I	Down switch input (SW1)
11	SSTP	I	Limit switch input (SW4)
12, 13	NCO	1	Not used in this set.
	NCO	_	Not used in this set. Not used in this set.
14, 15	EMBH O	_	
16	EMPH O	0	De-emphasis ON/OFF control output
17	CDMON	0	CD mechanism deck power control output
18	CD ON	0	CD power control output
19	A MUT	0	System attenuate control output
20	LD ON	0	Laser power ON/OFF control output
21	CD RST	0	CD system reset output
22	HOLD	0	Hold switch output
23	AGC CONT	0	AGC control output
24	_	_	Not used in this set.
25	PH3	I	Not used in this set.
26	TSTIN0	I	Not used in this set.
27	TSTIN1	I	Not used in this set.
28	TST.CLV	I	Not used in this set.
29	NCO	_	Not used in this set.
30	RESET	I	System reset input ("L"=Reset)
31	X IN	I	X'tal oscillator input from system clock. (10 MHz)
32	X OUT	0	X'tal oscillator output for system clock. (10 MHz)
33	GND	_	Analog ground
34	XT OUT	0	Not used in this set.
35	XT IN	I	Not used in this set.
36	AVSS	_	A/D converter ground
37	AVREF	I	A/D converter reference voltage input
38	TEP L	I	Not used in this set.
39	TEP H	I	Not used in this set.
40	SLED-	I	Sled drive input
41	PH2	I	Not used in this set.
42	SEK/SMET	I	Fixed at "H" in this set.
43	GFS/MNT2 SEL	I	Fixed at "H" in this set.
44	SC-JIG ON/OFF	I	Fixed at "H" in this set.
45	SCLK	0	CD-TEXT data read clock output
46	LOCK	I/O	Lock signal input/output
47	LOCK	1/0	Not used in this set.
48	SCK2	0	Sub Q read clock output
49		I	Sub Q 80 bit, PCM peak and level data 16 bit input.
50	SI2	<u> </u>	Not used in this set.
	DIIC CI V		
51	BUS CLK	I/O	Bus system serial clock input/output
52	BUS SI	I	Bus system serial interface input
53	BUS SO	0	Bus system serial interface output
54	FOK	I	Focus OK signal input
55	GFS	I	GFS signal detection input
56	TEST MODE	I	Fixed at "H" in this set.

CDX-M620/M670

Pin No.	Pin Name	I/O	Pin Description
57	SENS	I	SENS signal input
58	_	T —	Not used in this set.
59	_	T —	Not used in this set.
60	BU.IN	I	Back-up power detection input
61	BUSON	I	Bus on control input
62	ĪN SW	I	Disc in switch input (SW3)
63	SELF SW	I	Self switch input (SW2)
64	SCOR	О	Sub-code sync output
65	CD-CKO	О	CD signal process serial clock output
66	LM LOD	О	Loading motor control output
67	CD DATA	О	CD signal process serial data output
68	CD-XLAT	О	CD signal process serial data latch output
69	LM-EJ	О	Loading motor control output
70	DRV-OE	О	Focus/tracking coil/sled motor control output
71	MD2	О	Digital out ON/OFF control output ("L": OFF, "H": ON)
72	VDD	_	Power supply pin
73	NIH	I	Fixed at "H" in this set.
74	V/Z	I	Fixed at "H" in this set.
75	PH1	I	Not used in this set.
76	_	_	Not used in this set.
77	DOUT-SEL	I	Fixed at "H" in this set.
78 – 80	_	_	Not used in this set.

• IC501 MB90574BPMT-G-321-BND (SYSTEM CONTROL) (MAIN BOARD) (US MODEL) • IC501 MB90574BPMT-G-322-BND (SYSTEM CONTROL) (MAIN BOARD) (AEP, UK, E MODEL)

Pin No.	Pin Name	I/O	Pin Description
1 – 3	(NCO)	О	Not used. (Open)
4	SP LATCH	О	Spectrum analyzer data latch signal
5	ATT	О	System mute signal
6	SYS RST	О	System reset signal
7	(NCO)	0	Not used. (Open)
8	VCC	_	Power supply pin (+5 V)
9	(NCO)	0	Not used. (Open)
10	E2P SIO	I/O	Tuner unit EEPROM BUS serial data input/output
11	E2P CKO	I/O	Tuner unit EEPROM BUS serial clock input/output
12	FLS SI	I	Flash CPU write-in data input
13	FLS SO	0	Flash CPU write-in data output
14	BUS ON	0	BUS ON signal
15	BEEP	0	Beep signal
16	TEL ATT	I	Telephone mute signal
17	UNI SI	I	SONY BUS serial data input
18	UNI SO	0	SONY BUS serial data output
19	UNI CKO	0	SONY BUS serial clock output
20 – 23	(NCO)	0	Not used. (Open)
24	SIRCS	I	Wireless remote data input
25	DSP SI	I	DSP serial data input
26	DSP SO	0	DSP serial data output
27	DSP CKO	0	DSP serial clock output
28	DSP PLL	0	DSP PLL clock control signal
29	DSP MST	0	DSP master/slave control signal
30	(NCO)	0	Not used. (Open)
31	VOL ATT	0	Electronic volume mute signal
32	TU ATT	0	Not used. (Open)
33	VSS		Ground
34	С	_	Not used. (Open)
35	DSP LAT	0	DSP latch signal
36	DSP RST	0	DSP reset signal
37	SHIFT	0	OSC frequency shift signal for DC/DC conv.
38	DVCC	_	Power supply pin (+5 V)
39	DVSS	_	Ground
40	FP CTRL	0	OPEN/CLOSE motor voltage control signal
41	(NCO)	0	Not used. (Open)
42	AVCC	_	Power supply pin (+5 V)
43	AVRH	<u> </u>	Power supply pin (+5 V)
44	AVRL	_	Ground
45	AVSS	<u> </u>	Ground
46	KEY IN0	I	Key input 0
47	KEY IN1	I	Key input 1
48	RC IN0	I	Rotary commander input 0
49	(NCO)	0	Not used. (Open)
50	QUALITY	I	Noise detection signal
51	(NCO)	0	Not used. (Open)
52	MPTH	I	Tuner multi path detection signal
53	VSM	I	S-meter voltage detection signal
54	VCC	<u> </u>	Power supply pin (+5 V)
55	STBY	О	Power amplifier drive signal
56	NS MASK	О	Noise detection ON/OFF control signal
		1	

Pin No.	Pin Name	I/O	Pin Description
57	DDC ON	_	DC/DC converter power control signal
		0	CD eject control signal
58	CD EJECT OK	0	
59	CD OPEN REQ	I	Front panel open request signal
60	(NCO)	0	Not used. (Open)
61	OPEN KEY	I	OPEN key detection signal
62	NOSE SW	I	Nose SW detection signal
63	VSS	 -	Ground
64	DETACH SW	I	Detach SW detection signal
65	PWM	I	Oscillation frequency count input
66 – 68	(NCO)	О	Not used. (Open)
69	FLASH W	I	Flash write-in signal
70	I2C SIO	I/O	I2C serial data input/output
71	I2C CKO	I/O	I2C serial clock input/output
72	RC IN1	I	Rotary commander input 1
73	X1A		Crystal oscillator (32.768 kHz)
74	X0A		Crystal oscillator (32.768 kHz)
75	DAVN	I	RDS data acquisition detect signal
76	CDON IN	I	CD mechanism power control signal
77	BU IN	I	Back-up power detection signal
78	DSP READY	I	DSP ready signal
79	KEY ACK	I	Key acknowledge signal
80	AD ON	О	A/D converter power control signal
81	ACC IN	I	Accessory key ON signal
82	FLS PWON	О	Flash power ON control signal
83	PW ON	О	Audio circuit power ON control signal
84	TEST IN	I	Test mode initial setting detection signal
85	RAM BU	I	RAM reset detection signal
86	HSTX	I	Hardware standby input
87	MD2	I	Connecting to ground in this set.
88	MD1	I	Connecting to VCC in this set.
89	MD0	I	Connecting to VCC in this set.
90	RSTX	I	Reset input
91	VSS		Ground
92	X0		Crystal oscillator (3.68 MHz)
93	X1	_	Crystal oscillator (3.68 MHz)
94	VCC		Power supply pin (+5 V)
95	ILL IN	I	Illumination dimmer control signal
96	I DET	I	OPEN/CLOSE motor abnormal current detection
97	MOT –	0	OPEN/CLOSE motor control signal
98	MOT +	0	OPEN/CLOSE motor control signal
99	CLOSE SW	I	Close SW detection signal
100	OPEN SW	I	Open SW detection signal
101	CENT SW	I	Cent SW detection signal
101	(NCO)	0	Not used. (Open)
102	CDMD SEL	I	CD/MD selector signal
103	DEST SEL1	I	Destination selector signal 1
104	DEST SEL1 DEST SEL2		-
105	BOOT	I	Destination selector signal 2 Display CPU write-in control signal
106			7 1
	(NCO)	0	Not used. (Open)
108	DSP ON	0	DSP power control signal
109	SENS ON	0	Not used. (Open)
110	EMPH IN	I	Emphasis input
111	PACK IN	I	Pack detection signal

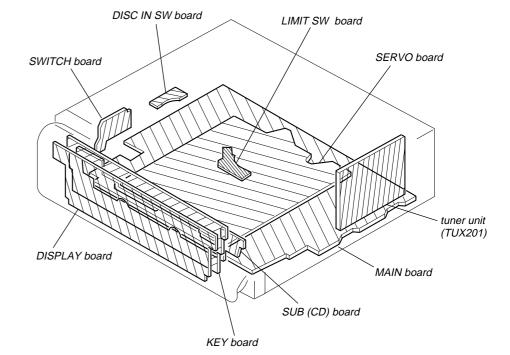
Pin No.	Pin Name	I/O	Pin Description
112	4V SEL	I	4V select control signal
113	(NCO)	0	Not used. (Open)
114	TUN ON	О	Tuner power control signal
115	LED SW1	О	Illumination select control signal 1
116	LED SW2	О	Illumination select control signal 2
117	(NCO)	О	Not used. (Open)
118	(NCO)	О	Not used. (Open)
119	VSS	_	Ground
120	(NCO)	О	Not used. (Open)

• IC702 HD643255A36F (SUB SYSTEM CONTROL) (MAIN BOARD)

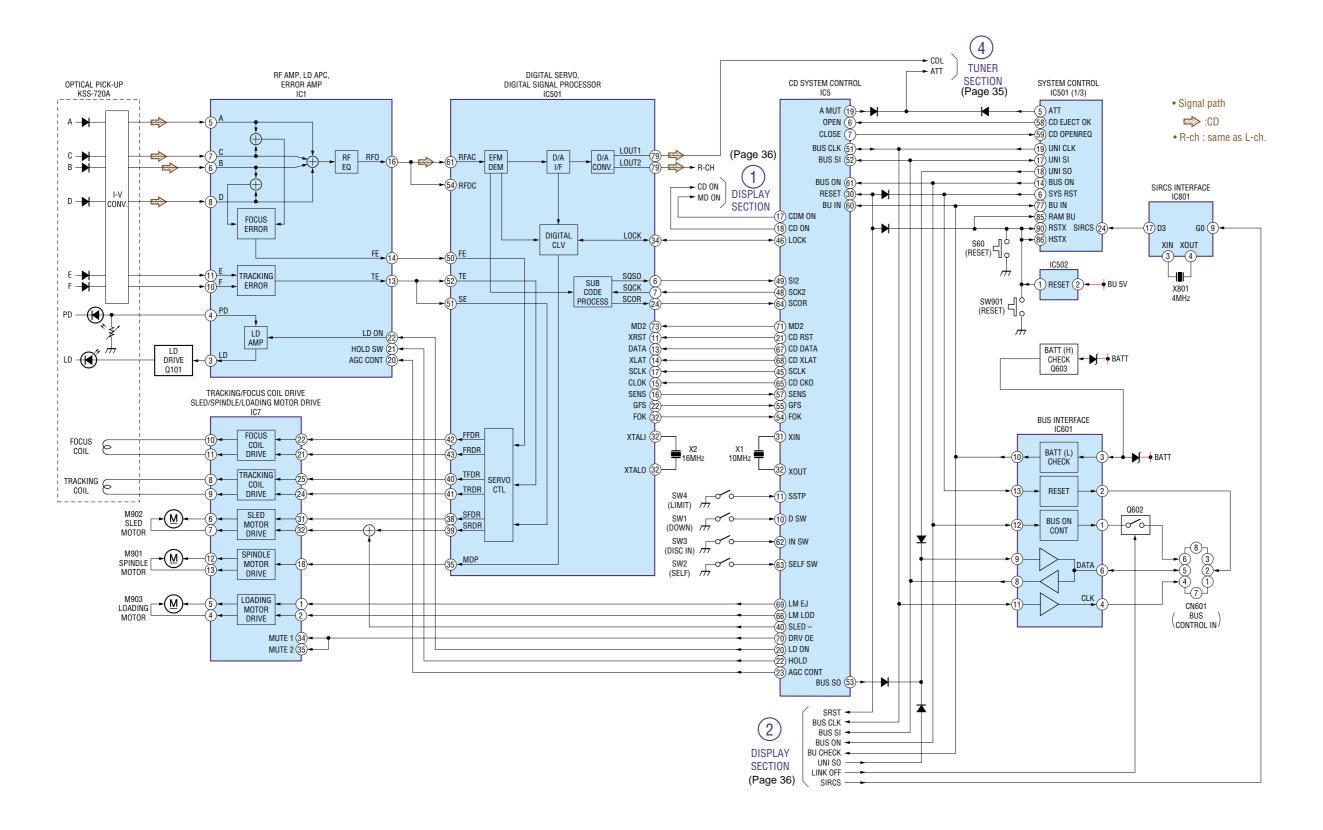
Pin No.	Pin Name	I/O	Pin Description
1	SA CLK	О	Not used. (Open)
2	PG4	О	Not used. (Open)
3	VSS	_	Ground
4	NC	_	Not used. (Open)
5	VCC	_	Power supply pin (+ 5V)
6 – 9	PC0 – PC3	О	Not used. (Open)
10	VSS	_	Ground
11 – 14	PC4 – PC7	О	Not used. (Open)
15 – 18	PB0 – PB3	О	Not used. (Open)
19	VSS	_	Ground
20 – 23	PB4 – PB7	О	Not used. (Open)
24 – 27	PA0 – PA3	О	Not used. (Open)
28	VSS	_	Ground
29 – 31	PA4 – PA6	О	Not used. (Open)
32	SA EN IN	I	Connecting to ground in this set.
33	SPE LAT	I	Spectrum analyzer data latch signal
34	BU IN	I	Back-up power detection signal
35, 36	VSS	_	Ground
37	P65	О	Not used. (Open)
38	BUS ON	I	BUS ON signal
39	VCC	_	Power supply pin (+5 V)
40 – 43	PE0 – PE3	О	Not used. (Open)
44	VSS	_	Ground
45	DSP SEL	I	Spectrum analyzer data select signal
46	LED SW1	I	Illumination select control signal 1
47	LED SW2	I	Illumination select control signal 2
48	PE7	О	Not used. (Open)
49	BU IN	О	Not used. (Open)
50	LINK OFF	О	Link OFF control signal
51	PD2	О	Not used. (Open)
52	ILL ON	О	Illumination power control signal
53	VSS	_	Ground
54 – 56	PD4 – PD6	О	Not used. (Open)
57	BOOT	I	Display CPU write-in control signal
58	VCC	<u> </u>	Power supply pin (+5 V)
59	P30	О	Not used. (Open)
60	LCD SO/TX	О	LCD driver serial data output
61	SP SI	I	Spectrum analyzer data input
62	RX	I	Flash CPU write-in data input
63	SP CKI	I	Spectrum analyzer clock input
64	LCD CKO	О	LCD driver serial clock output
65	VSS	<u> </u>	Ground
66	LCD CEO	О	LCD driver chip enable output
67, 68	VSS	<u> </u>	Ground
69	LCD INH	О	LCD driver inhibit control signal
70	LCD CE1	О	LCD driver chip enable output
71	LCD CE2	О	LCD driver chip enable output
72 – 78	P27 – P21	0	Not used. (Open)
79	FL W	0	Flash write control signal
80	FW E	I	Flash write enable signal
81	SYS RST	I	System reset signal
82	NMI	I	Non maskable interrupt signal
52	1 11111		1.01 managed meet ap organi

Pin No.	Pin Name	I/O	Pin Description
83	STBY	I	Hardware standby signal
84	VCC		Power supply pin (+5 V)
85	XTAL		Crystal oscillator (18.432 MHz)
86	EXTAL	_	Crystal oscillator (18.432 MHz)
87	VSS		Ground
88	PF7	О	Not used. (Open)
89	VCC		Power supply pin (+5 V)
90 – 96	PF6 – PF0	О	Not used. (Open)
97	UNI SO	0	SONY BUS serial data output
98	UNI SI	I	SONY BUS serial data input
99, 100	VSS		Ground
101	UNI CKI	I	SONY BUS serial clock input
102	P53	0	Not used. (Open)
103	AVCC		Power supply pin (+5 V)
104	VREF		Power supply pin (+5 V)
105 – 112	P40 – P47	I	Connecting to ground in this set.
113	AVSS		Ground
114	VSS		Ground
115 – 122	P17 – P10	0	Not used. (Open)
123	MD0	I	Mode setting 0
124	MD1	I	Mode setting 1
125	MD2	I	Mode setting 2
126 – 128	PG0 – PG2	О	Not used. (Open)

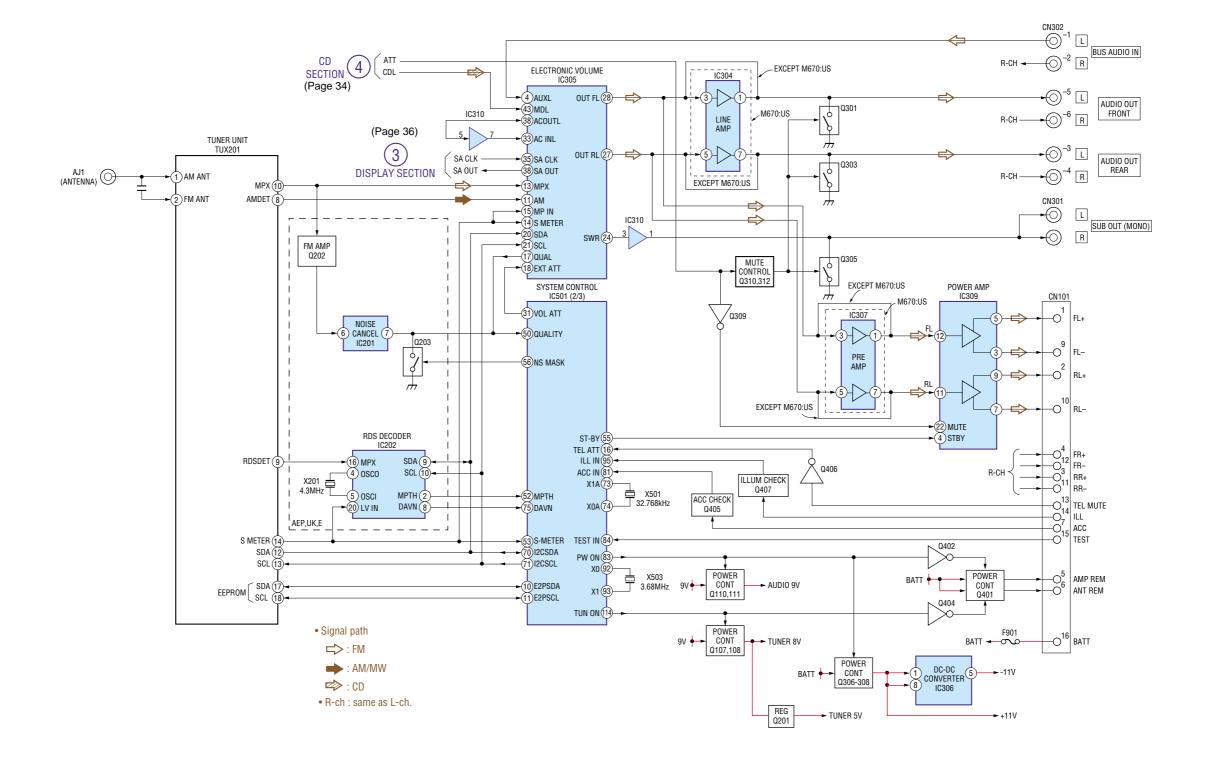
4-2. CIRCUIT BOARDS LOCATION



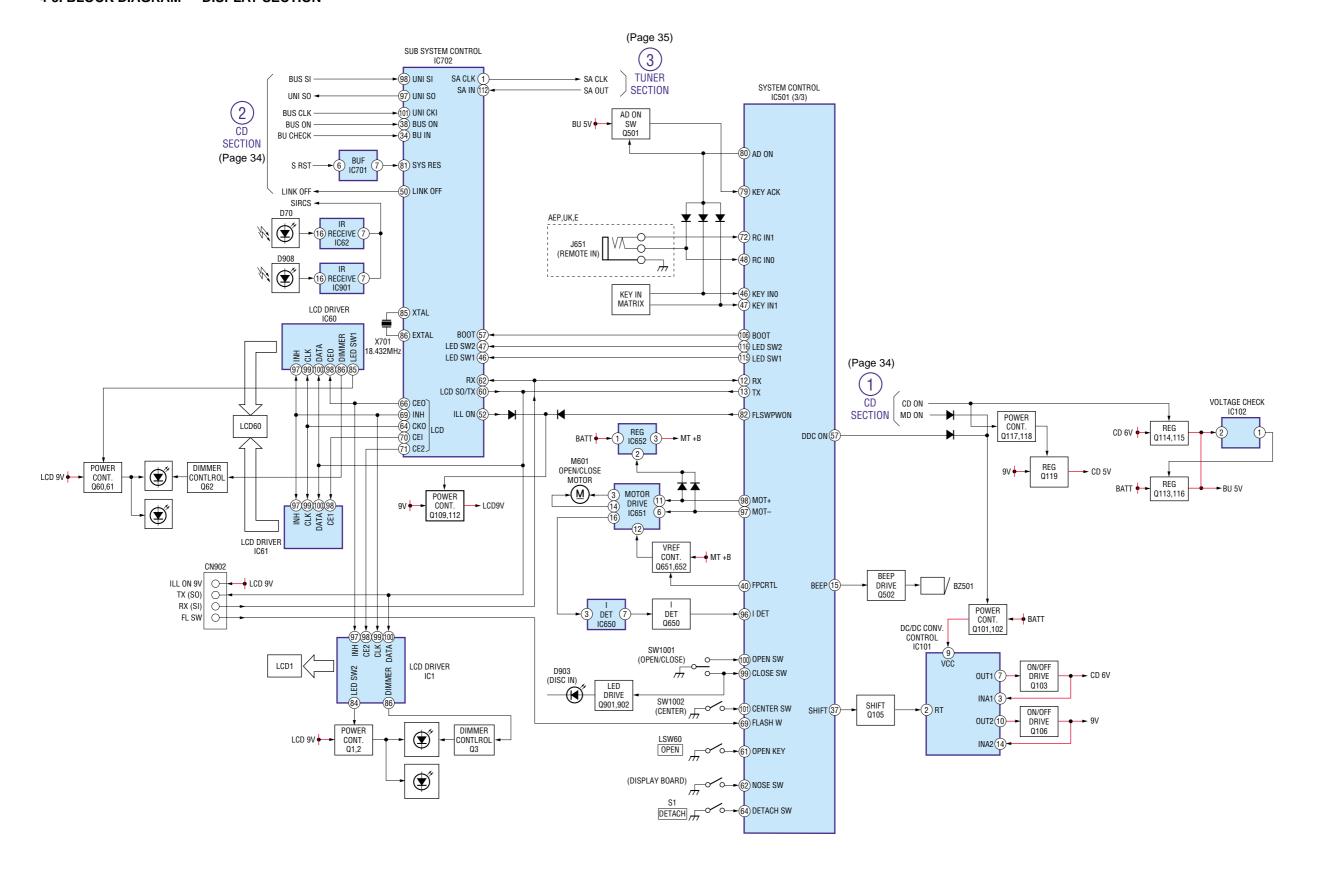
4-3. BLOCK DIAGRAM — CD SECTION —



4-4. BLOCK DIAGRAM — TUNER SECTION —



4-5. BLOCK DIAGRAM — DISPLAY SECTION —



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS. (In addition to this, the necessary note is printed in each block.)

for schematic diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $^{1}\!/_{4}\,W$ or less unless otherwise specified.
- % : indicates tolerance.
- \triangle : internal component.
- _____ : panel designation.

Note: The components identified by mark ♠ or dotted line with mark ♠ are critical for safety.

Replace only with part number specified.

- === : B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages are taken with a VOM (Input impedance 10 MΩ).
 Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
 Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.

FM : AM/MW

: Alvi/iv

for printed wiring boards:

- • : parts extracted from the component side.
- — : parts extracted from the conductor side.
- • : Through hole.
- Pattern from the side which enables seeing.

(The other layer's patterns are not indicated.)

Caution:

Pattern face side: Parts on the pattern face side seen from the

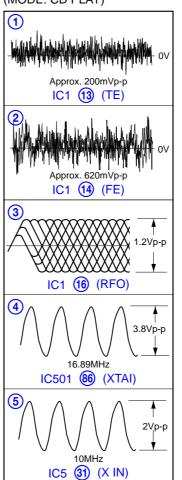
(Side B) pattern face are indicated.

Parts face side: Parts on the parts face side seen from the (Side A) parts face are indicated.

Waveforms

— Servo Board —

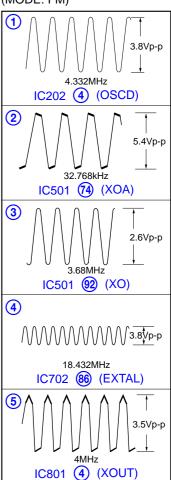
(MODE: CD PLAY)



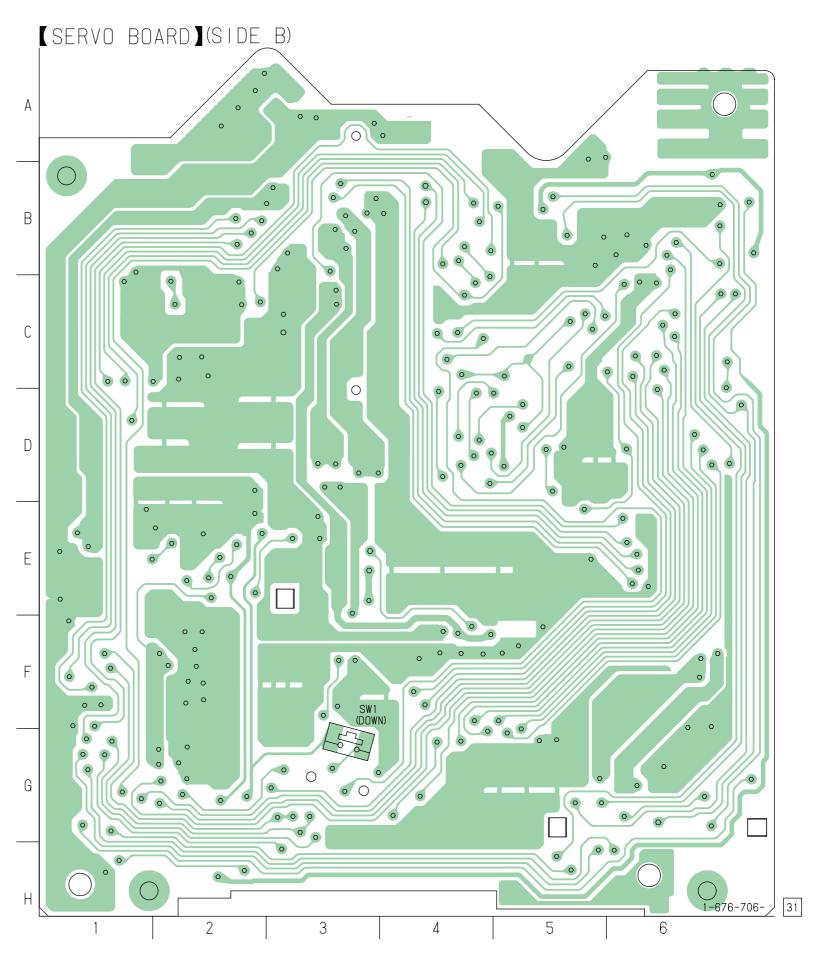
Waveforms

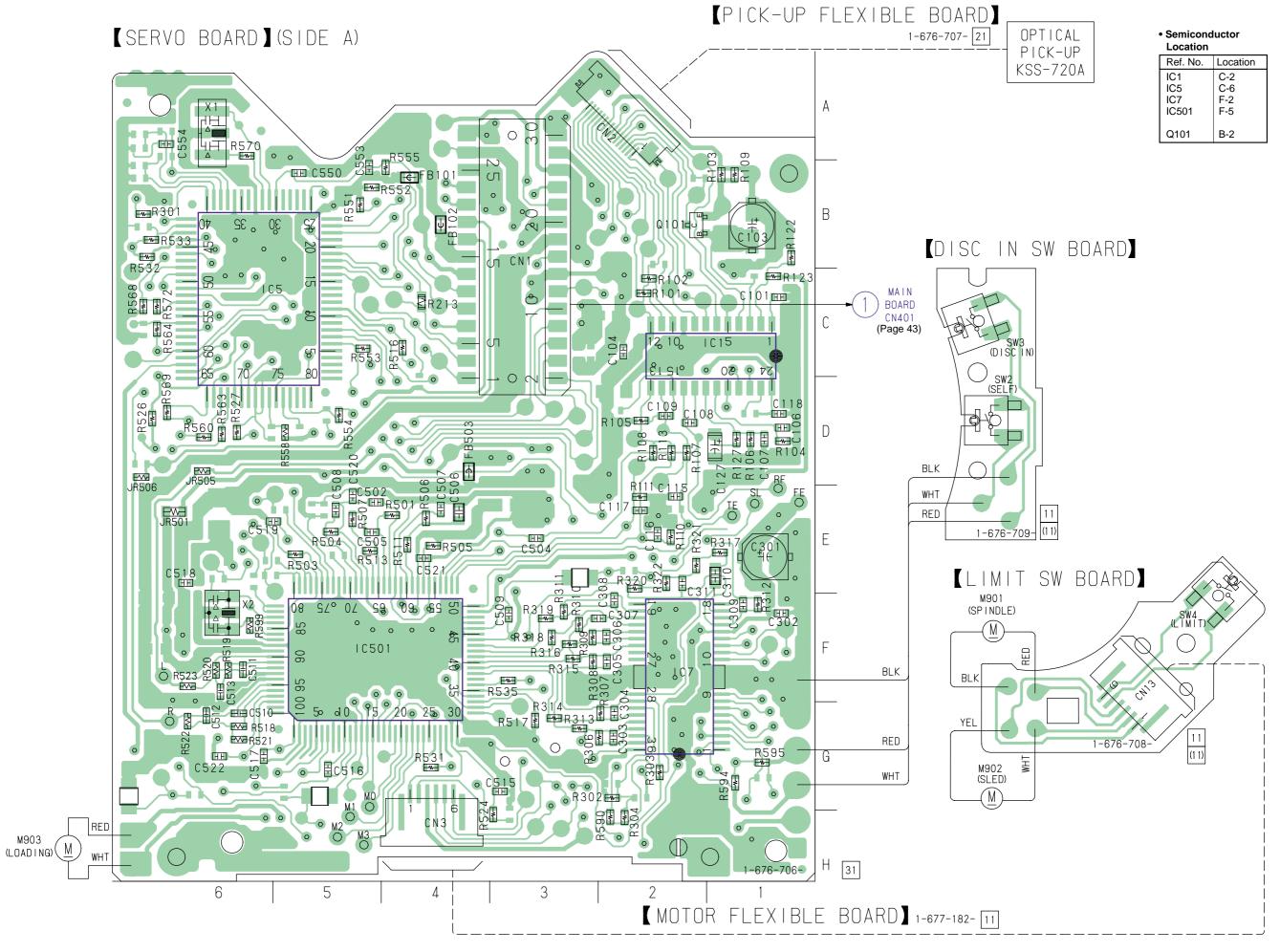
— Main Board —

(MODE: FM)



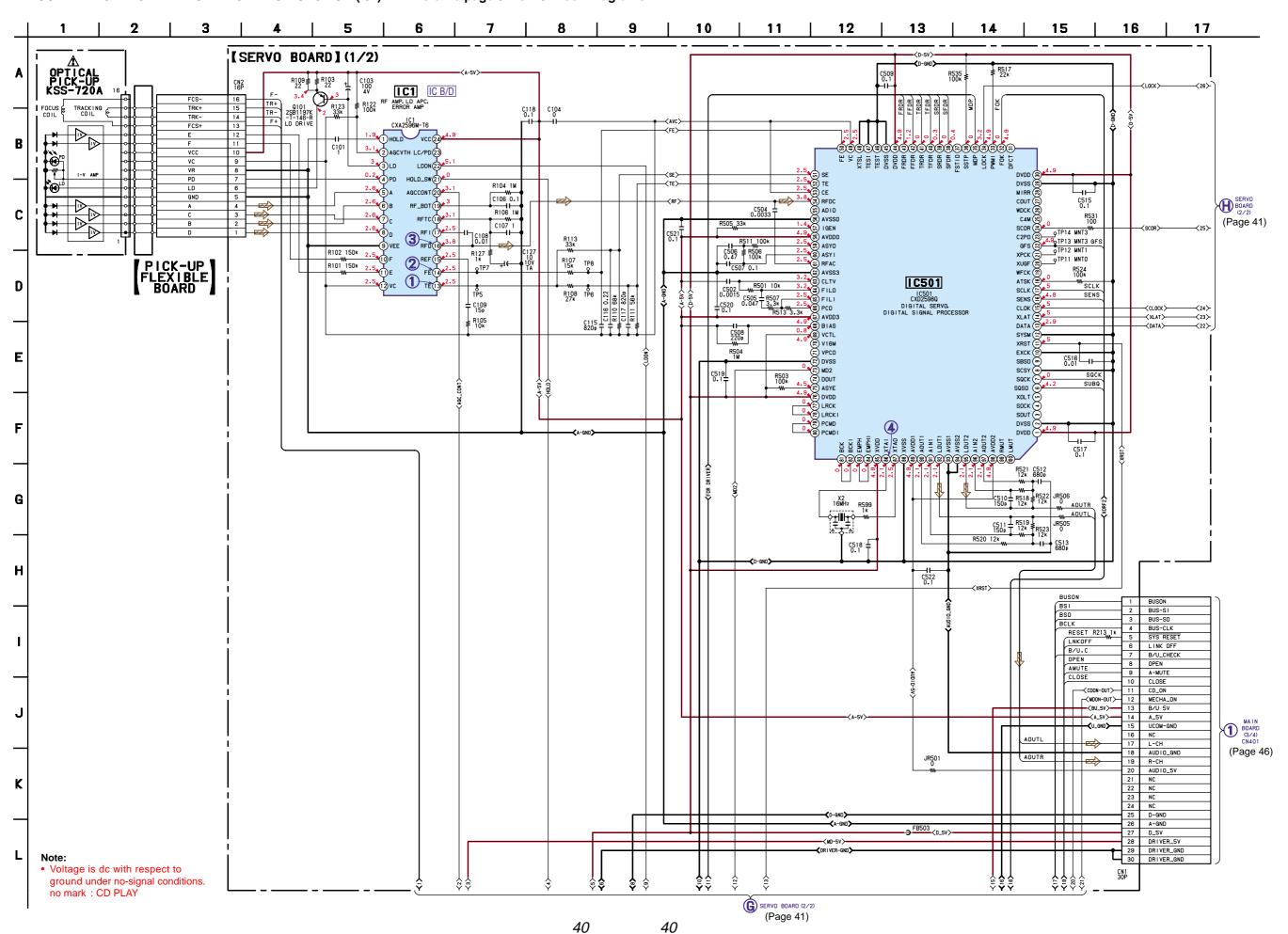
4-6. PRINTED WIRING BOARDS — CD MECHANISM SECTION —





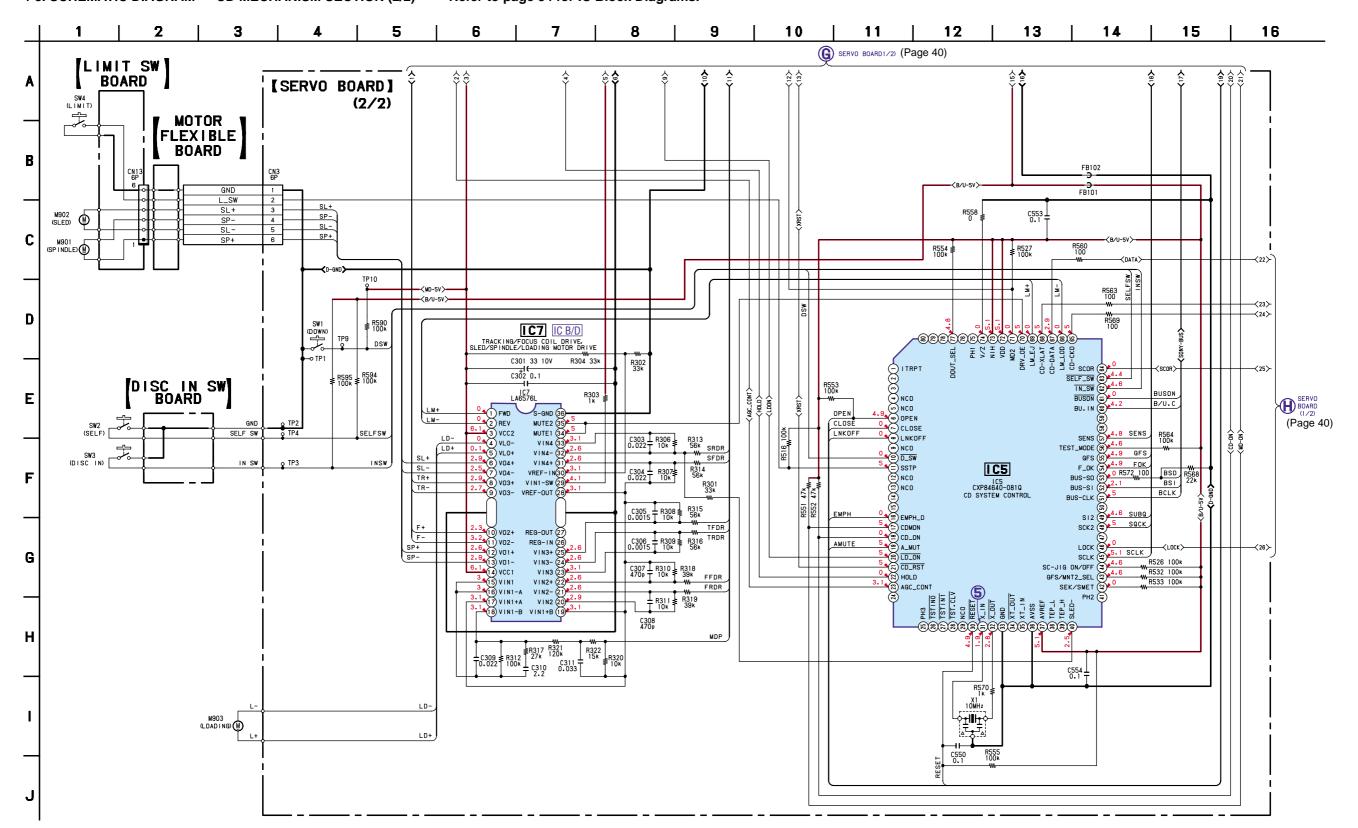
• Refer to page 37 for Waveforms.

4-7. SCHEMATIC DIAGRAM — CD MECHANISM SECTION (1/2) — • Refer to page 54 for IC Block Diagrams.



• Refer to page 37 for Waveforms.

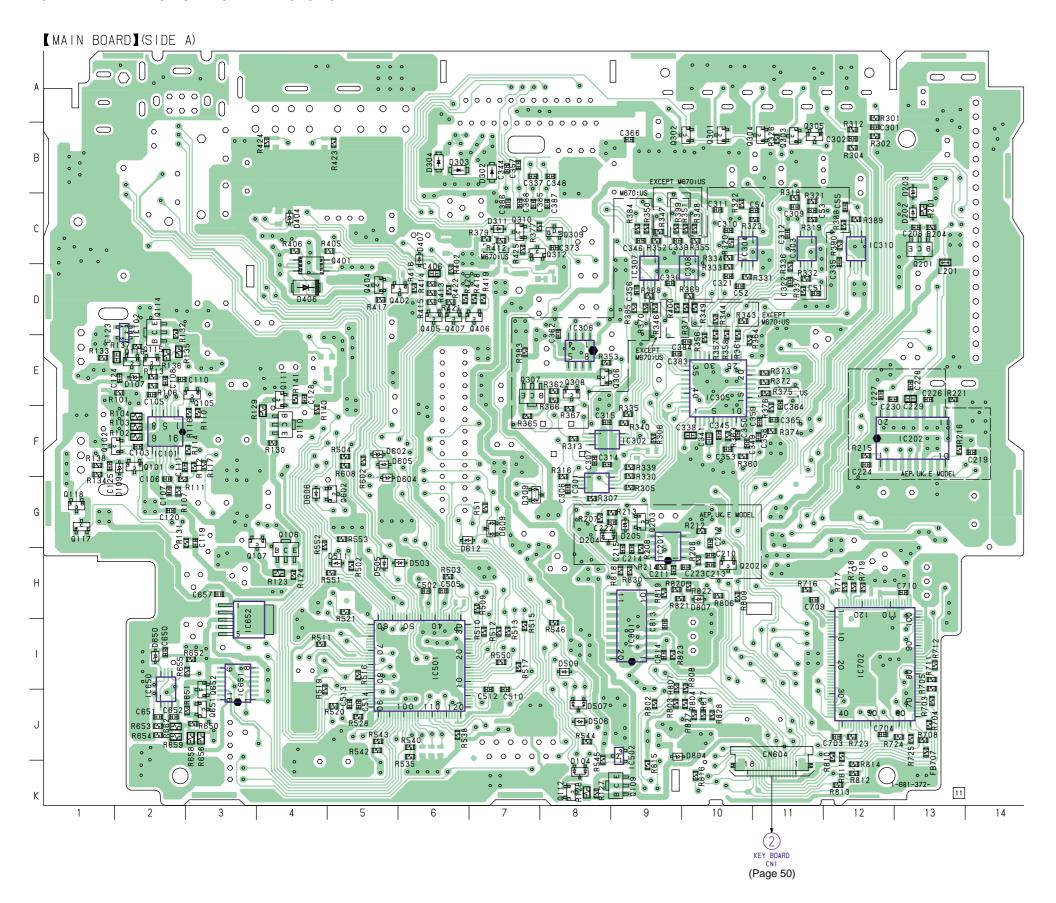
4-8. SCHEMATIC DIAGRAM — CD MECHANISM SECTION (2/2) — • Refer to page 54 for IC Block Diagrams.



Note:

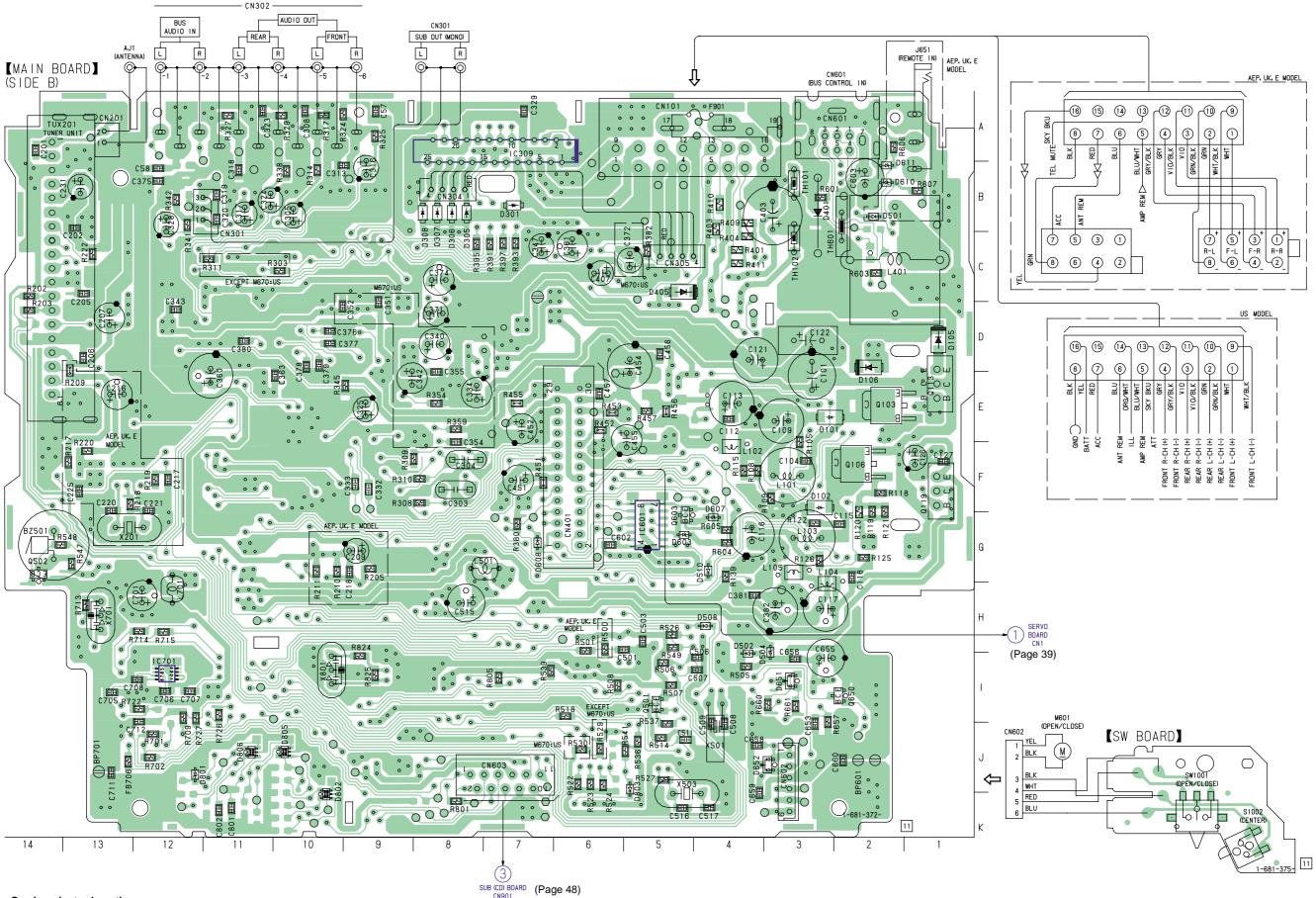
Voltage is dc with respect to ground under no-signal conditions. no mark: CD PLAY

4-9. PRINTED WIRING BOARDS — MAIN SECTION —



Semiconductor Location

D104 K-8 IC502 J-9 D107 E-2 IC650 J-2 D109 G-2 IC651 I-3 D202 C-13 IC652 I-3 D203 B-13 IC702 I-12 D204 G-8 IC801 I-9 D205 G-9 IC801 I-9 D302 B-7 Q101 F-2 D303 B-6 Q102 F-1	
D109 G-2 IC651 I-3 D202 C-13 IC652 I-3 D203 B-13 IC702 I-12 D204 G-8 IC801 I-9 D205 G-9 IC801 I-9 D302 B-7 Q101 F-2 D303 B-6 Q102 F-1	
D202 C-13 IC652 I-3 D203 B-13 IC702 I-12 D204 G-8 IC801 I-9 D205 G-9 Q101 F-2 D303 B-6 Q102 F-1	
D203 B-13 IC702 I-12 D204 G-8 IC801 I-9 D205 G-9 IC801 I-9 D302 B-7 Q101 F-2 D303 B-6 Q102 F-1	
D204 G-8 IC801 I-9 D205 G-9 F-2 F-2 D302 B-6 Q102 F-1	
D205 G-9 Q101 F-2 D303 B-6 Q102 F-1	
D302 B-7 Q101 F-2 D303 B-6 Q102 F-1	
D303 B-6 Q102 F-1	
D304 B-6 Q105 E-3	
D309 G-7 Q107 H-4	
D311 C-7 Q108 G-4	
D404 C-4 Q109 K-9	
D406 D-4 Q110 F-4	
D407 C-6 Q111 E-4	
D503 H-6 Q112 K-8 D505 H-5 Q114 D-2	
D506 J-8 Q115 E-2 D507 J-8 Q116 E-2	
D507 3-8 Q110 L-2 D509 I-8 Q117 G-1	
D511 H-5 Q118 G-1	
D602 F-5 Q201 C-13	
D604 G-4 Q202 H-10	
D605 F-5 Q203 G-9	
D606 G-4 Q301 B-10	
D609 G-7 Q302 B-9	
D612 G-6 Q303 B-11	
D650 I-2 Q304 B-10	
D804 J-10 Q305 B-11	
D807 H-10 Q306 E-8	
Q307 E-7	
IC101 F-2 Q308 E-8	
IC102 D-2 Q309 C-8	
IC201 G-9 Q310 C-7	
IC202 F-13 Q312 C-8	
IC301 G-8 Q401 C-4	
IC302 F-9 Q402 D-5	
IC303 C-11 Q404 D-5	
IC304 C-11 Q405 D-6	
IC305 E-10 Q406 D-7	
IC306 E-8 Q407 D-6	
IC307 D-9 Q602 G-5 IC308 D-9 Q651 J-3	
IC308 D-9 Q651 J-3 IC310 C-12 Q652 I-3	
IC510 C-12 Q652 1-3	
10	_

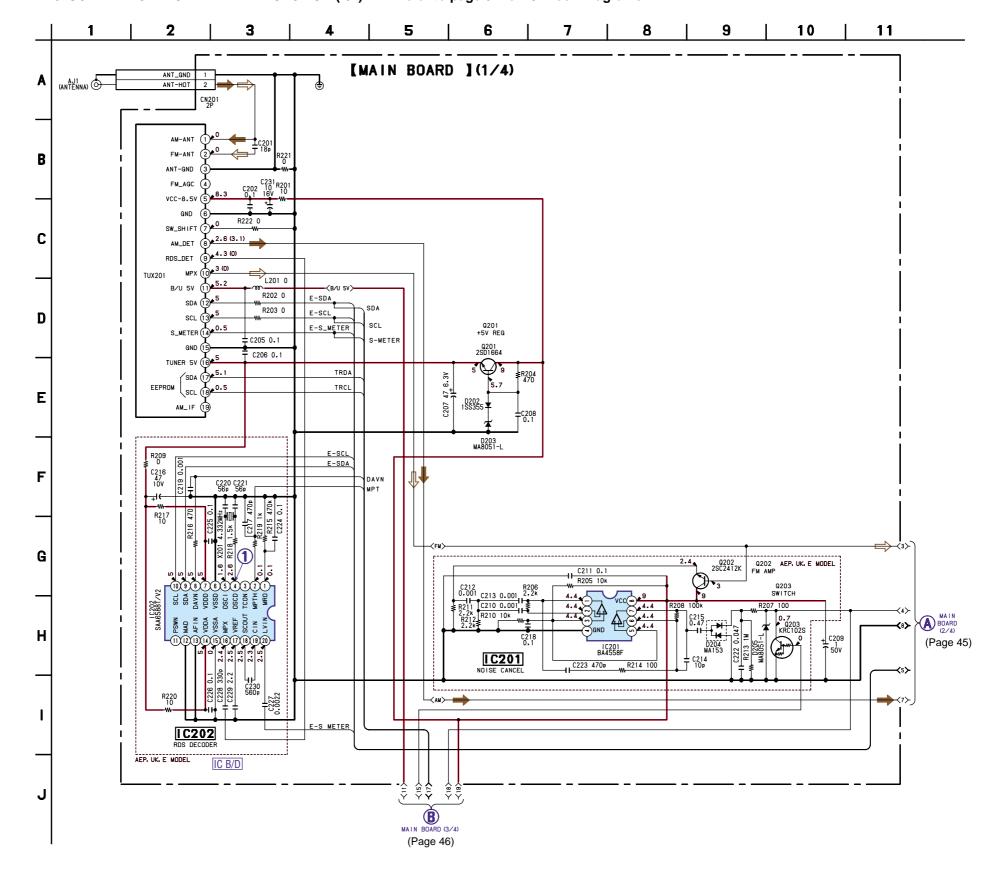


• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D101	E-3	D306	B-8	D502	H-4	D608	G-7	D802	J-10	IC601	G-5	Q119	F-1
D102	F-3	D307	B-8	D504	I-4	D610	B-2	D803	J-5	IC701	I-12	Q501	I-5
D105	D-1	D308	B-8	D508	H-4	D611	B-2	D805	J-10			Q502	G-14
D106	E-2	D401	B-3	D510	G-4	D651	I-3	D806	J-11	Q103	E-2	Q603	G-5
D301	B-7	D405	C-5	D603	G-5	D652	J-4			Q106	F-2	Q650	I-2
D305	B-8	D501	B-2	D607	G-4	D801	J-12	IC309	A-7	Q113	E-1		

• Refer to page 37 for Waveforms.

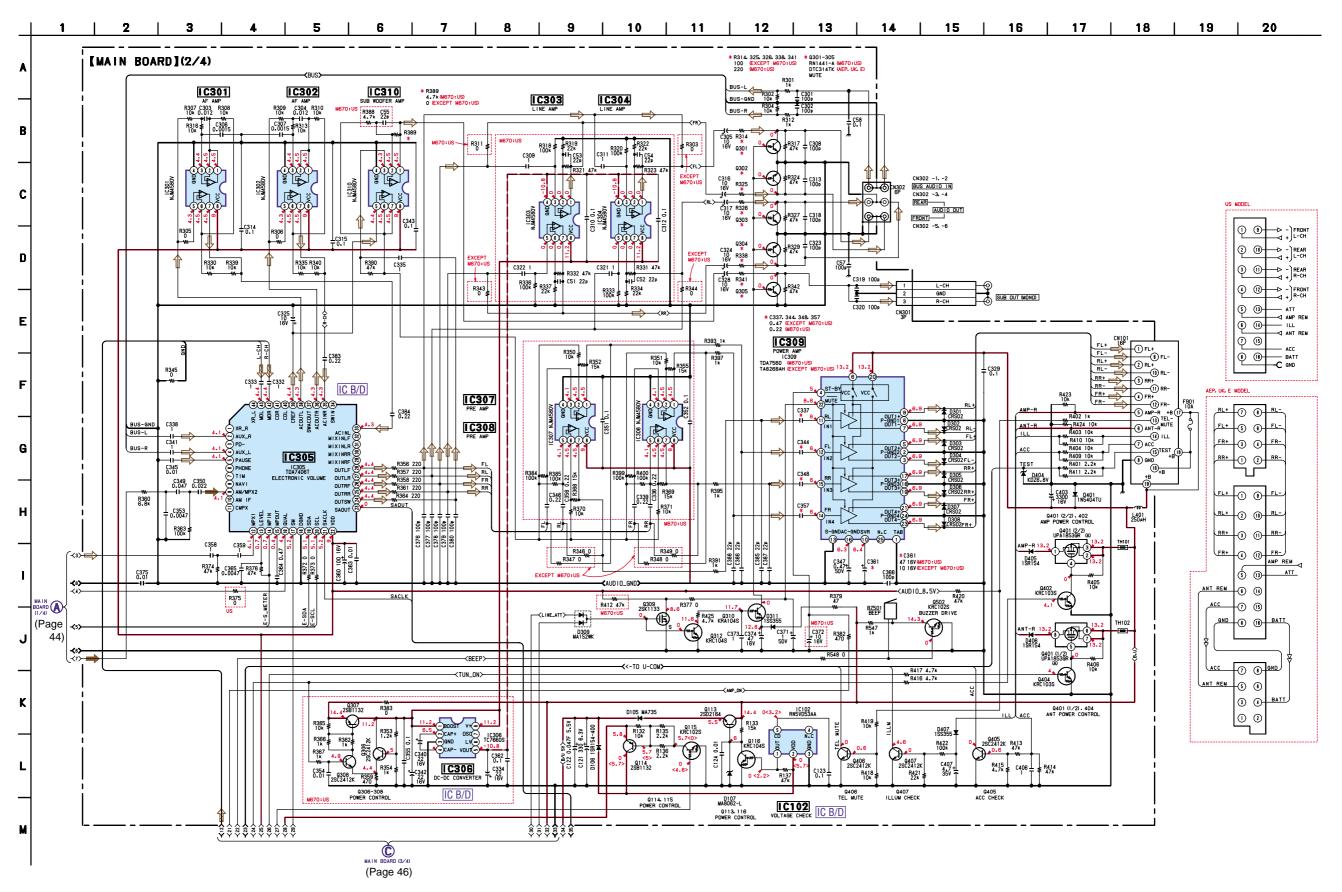
4-10. SCHEMATIC DIAGRAM — MAIN SECTION (1/4) — • Refer to page 54 for IC Block Diagrams.



Note:

 Voltage is dc with respect to ground under no-signal (detuned) condition.
 no mark: FM

4-11. SCHEMATIC DIAGRAM — MAIN SECTION (2/4) — • Refer to page 54 for IC Block Diagrams.

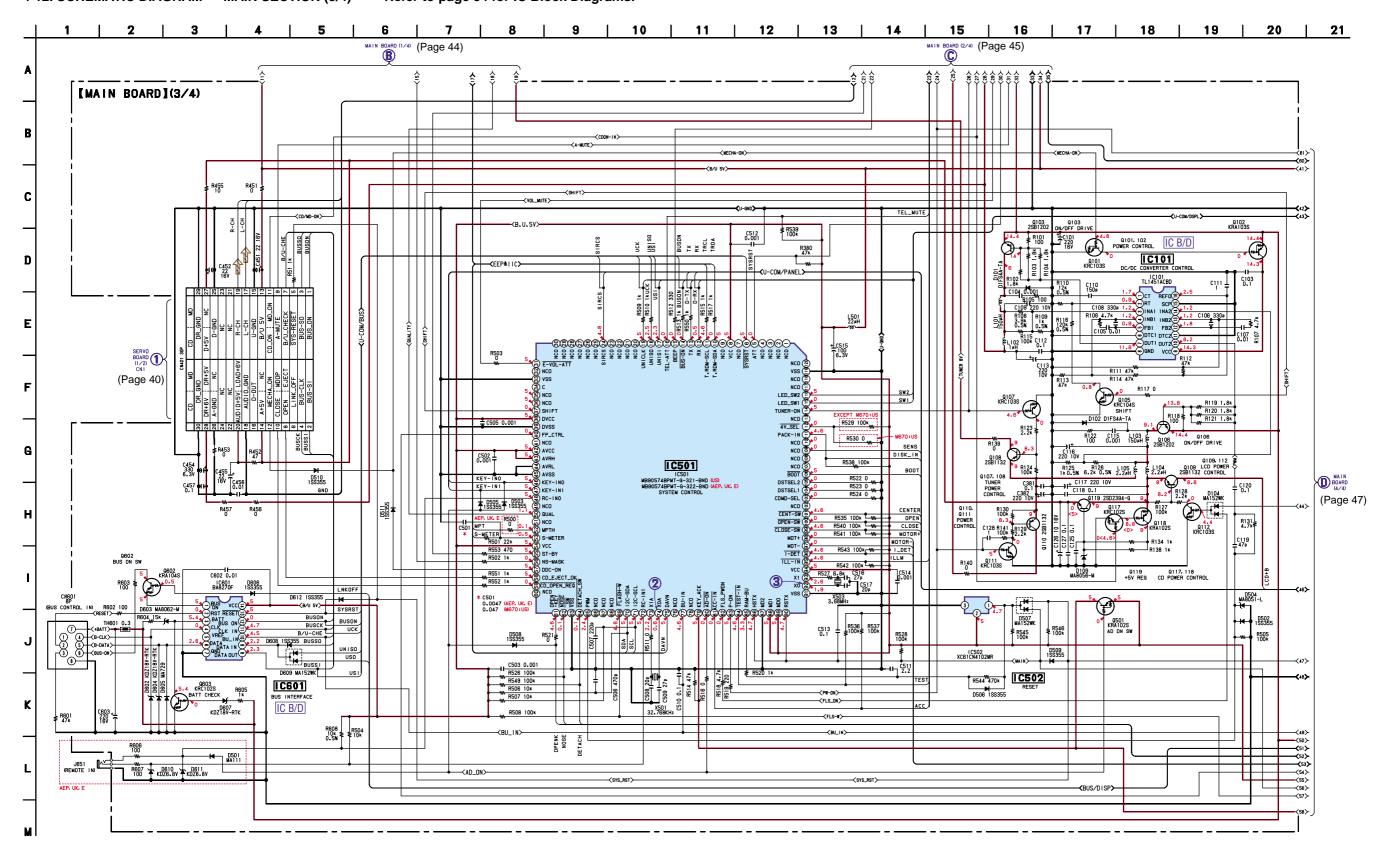


Note:

Voltage is dc with respect to ground under no-signal (detuned) condition.
 no mark: FM

• Refer to page 37 for Waveforms.

4-12. SCHEMATIC DIAGRAM — MAIN SECTION (3/4) — • Refer to page 54 for IC Block Diagrams.



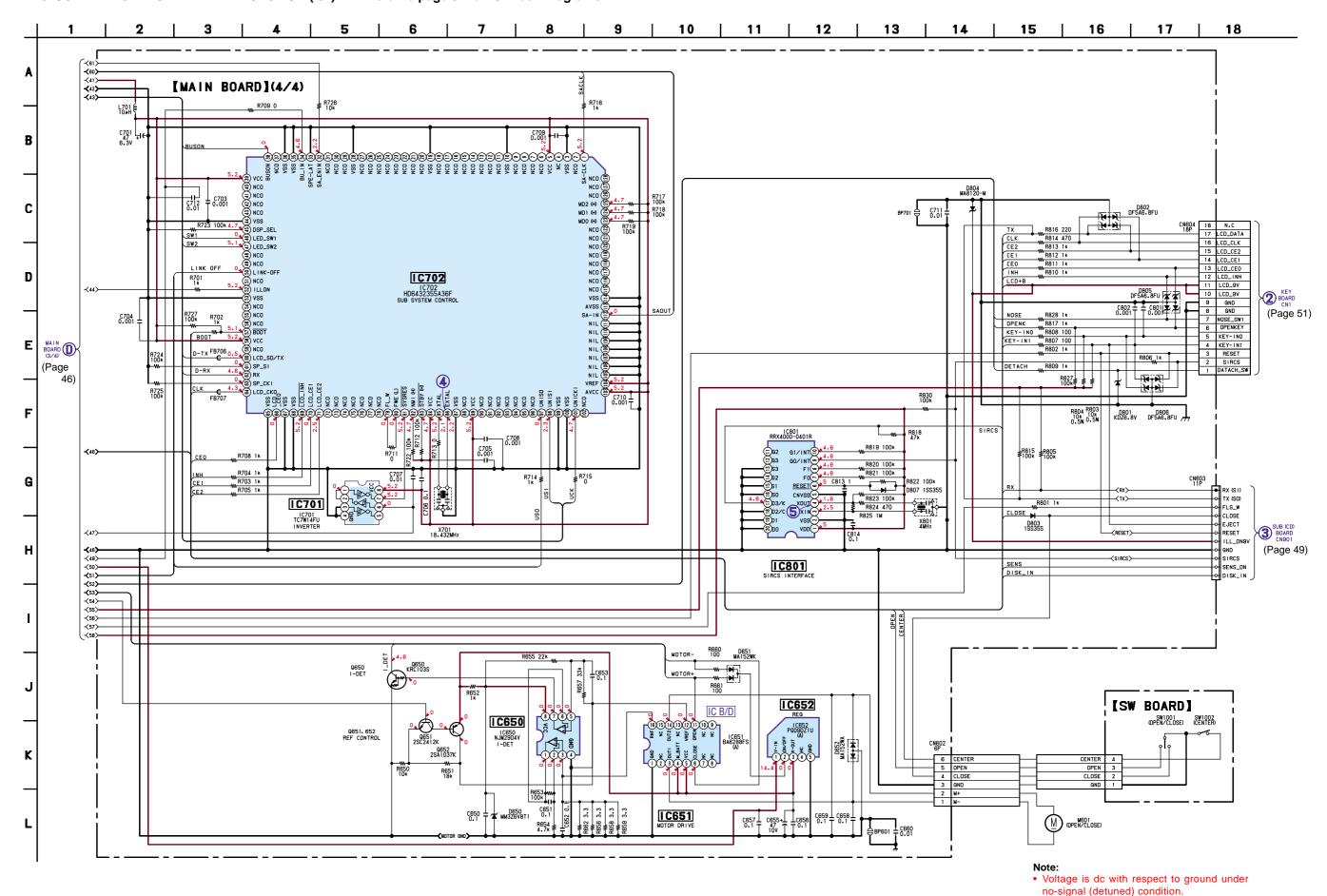
Note

 Voltage is dc with respect to ground under no-signal (detuned) condition.
 no mark: FM

(): AM/MW/LW < >: CD PLAY

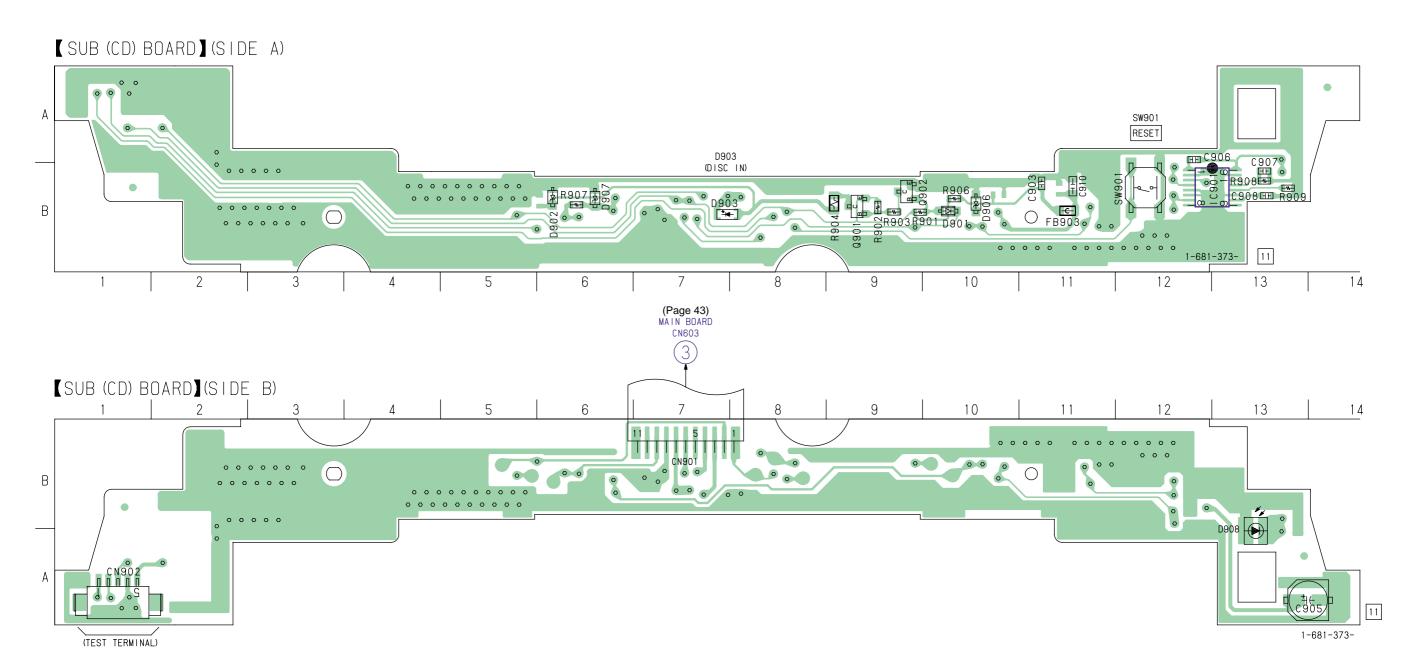
• Refer to page 37 for Waveforms.

4-13. SCHEMATIC DIAGRAM — MAIN SECTION (4/4) — • Refer to page 54 for IC Block Diagrams.



no mark : FM

4-14. PRINTED WIRING BOARD — SUB (CD) SECTION —

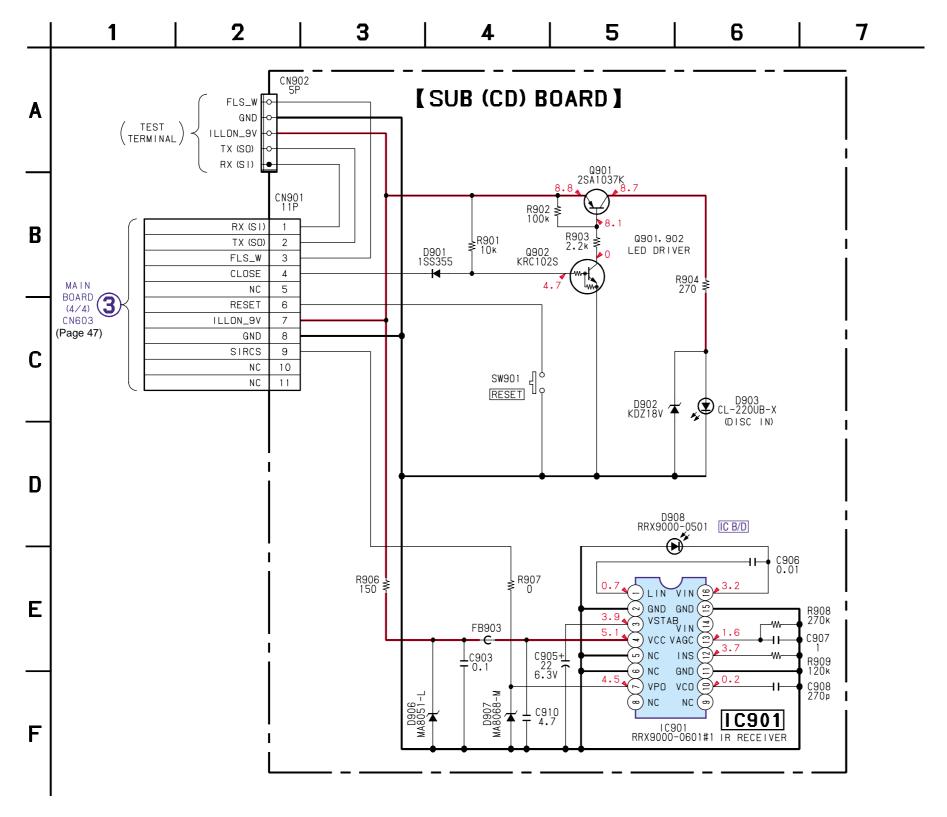


Semiconductor

Location	
Ref. No.	Location
D901	B-10
D902	B-6
D903	B-7
D906	B-10
D907	B-6
(D908)	B-13
IC901	B-13
Q901	B-9
Q902	B-9

(): SIDE B

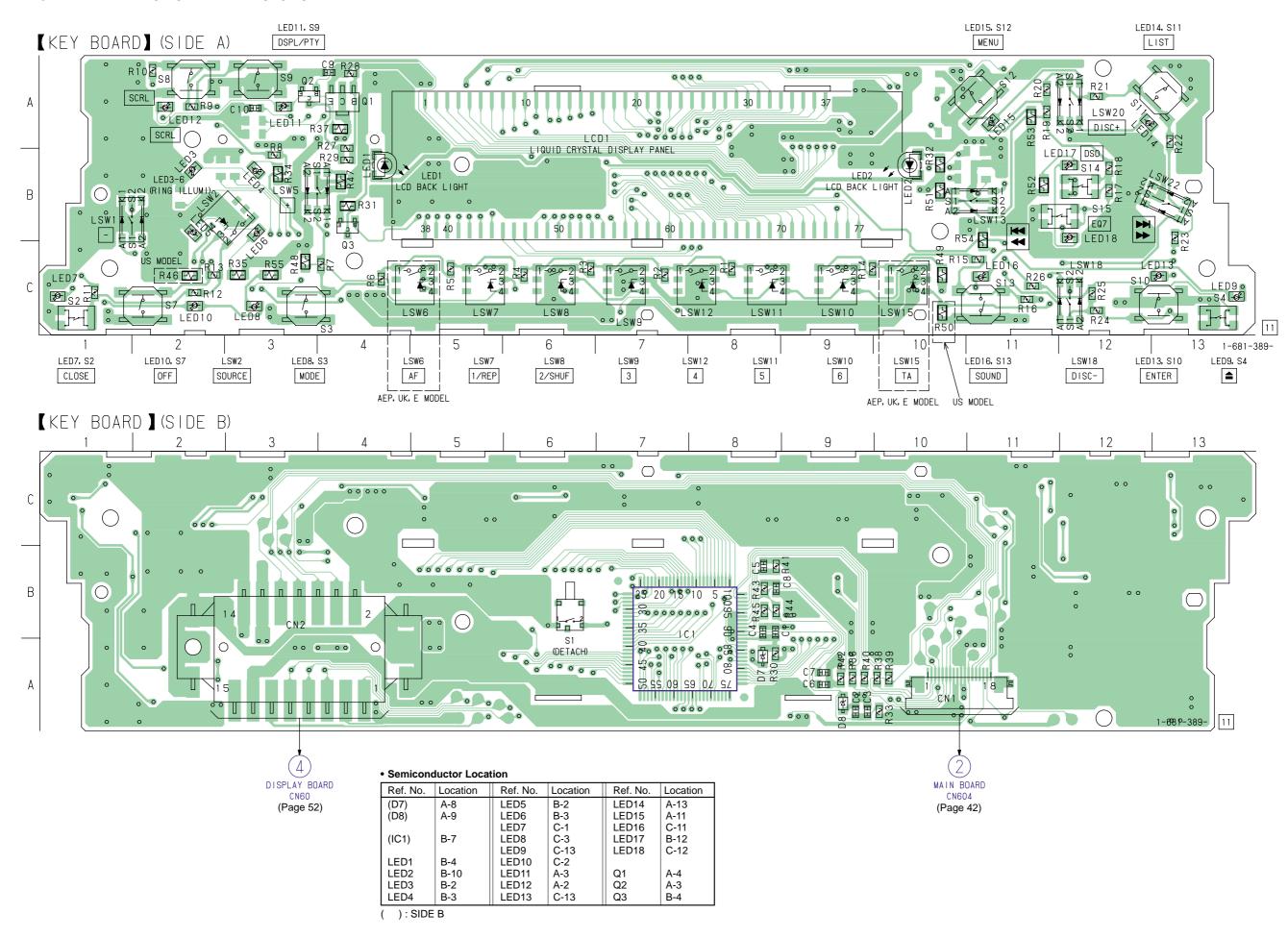




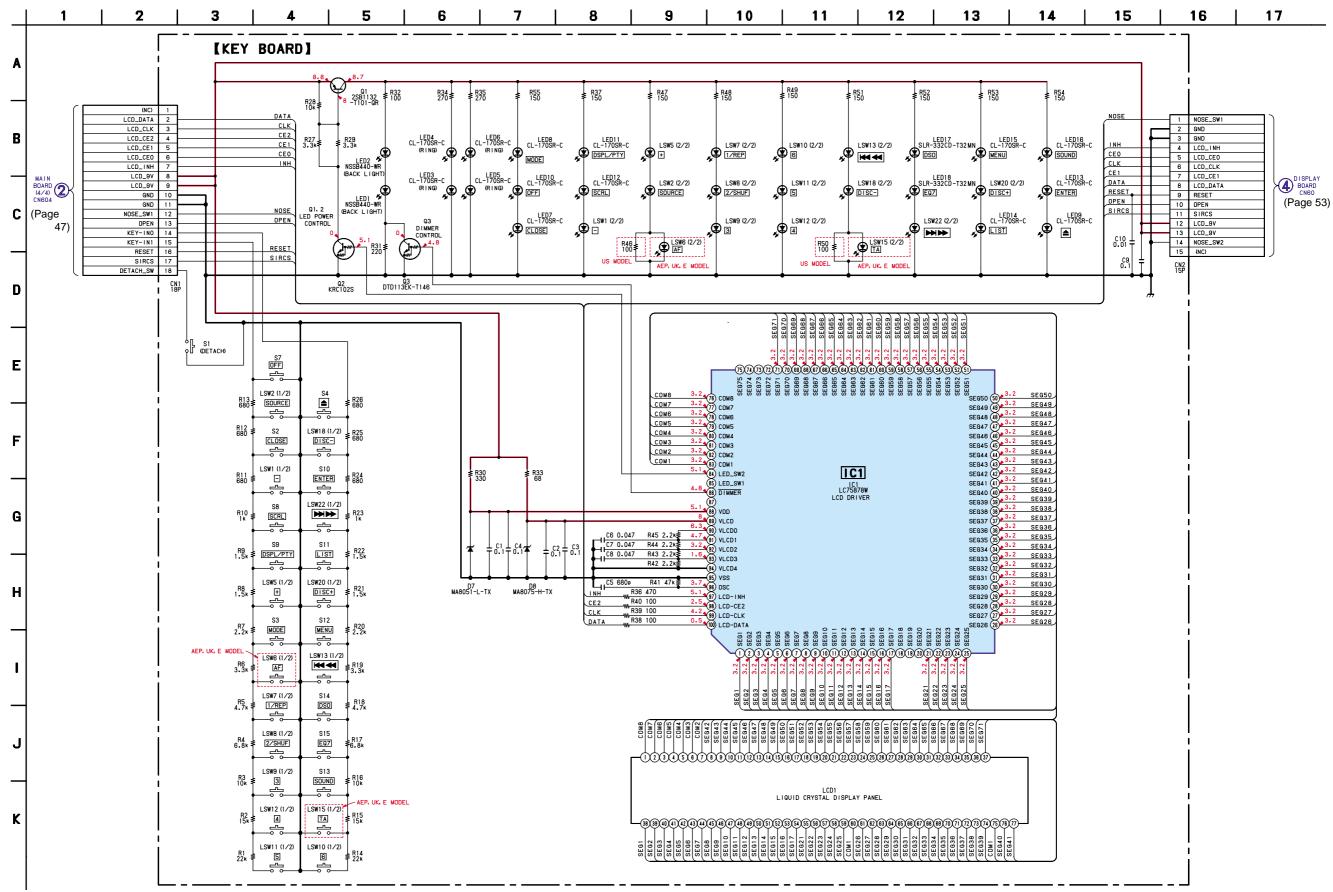
Note:

Voltage is dc with respect to ground under no-signal (detuned) condition.
 no mark: FM

4-16. PRINTED WIRING BOARD — KEY SECTION —



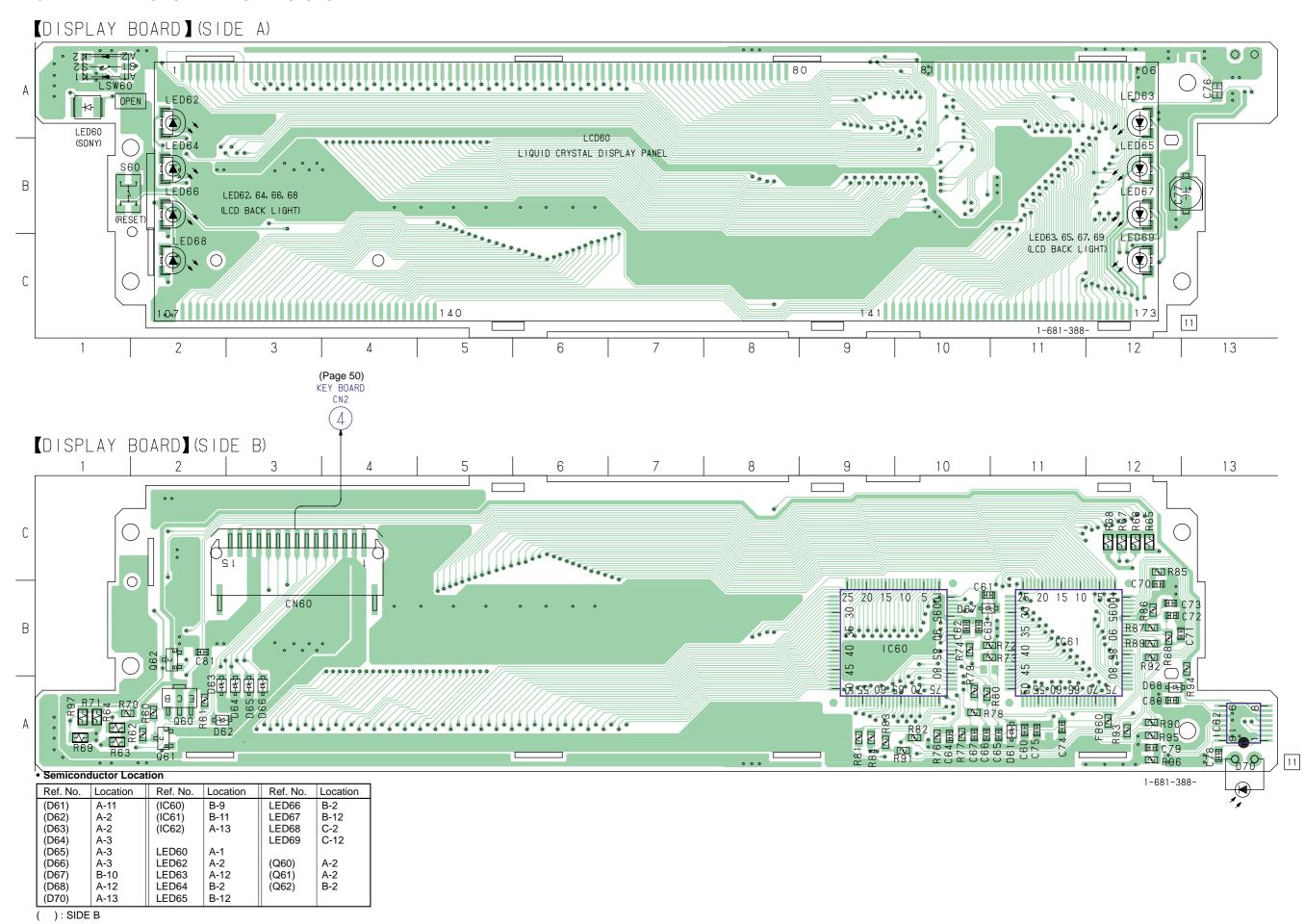
4-17. SCHEMATIC DIAGRAM — KEY SECTION —



Note:

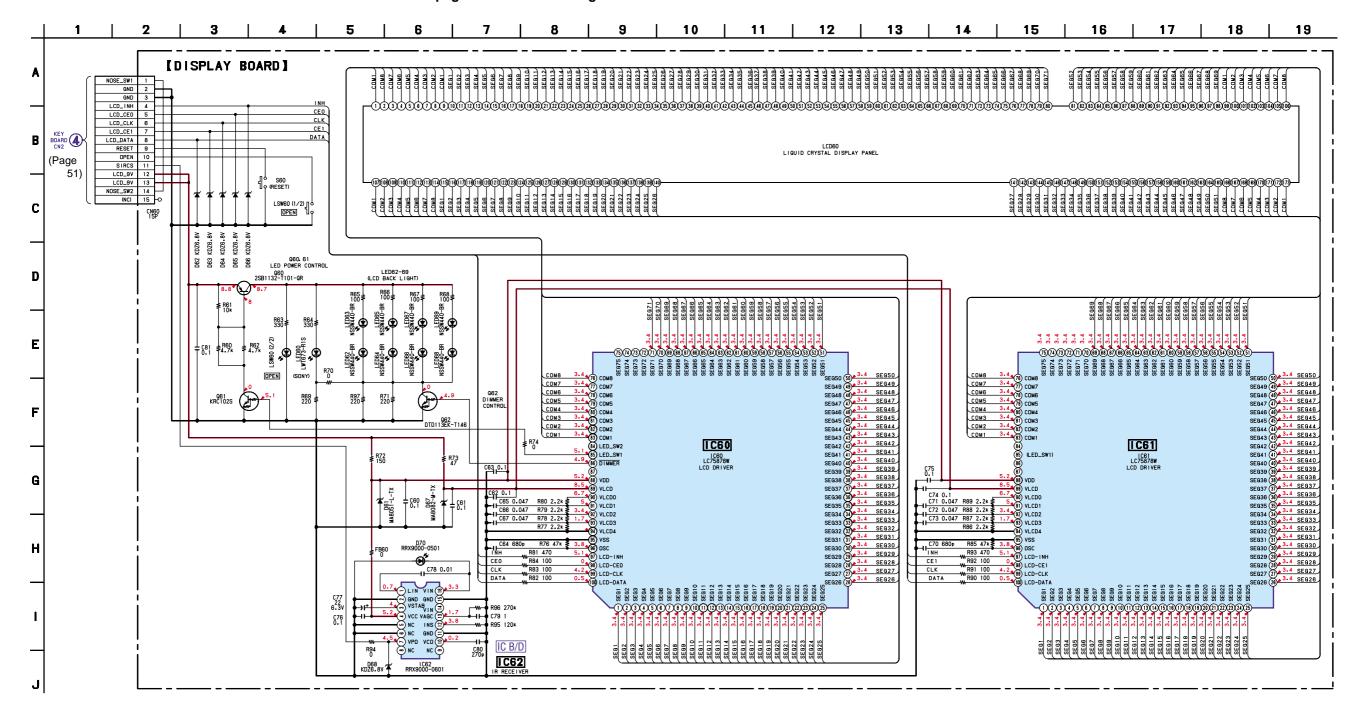
Voltage is dc with respect to ground under no-signal (detuned) condition.
 no mark: FM

4-18. PRINTED WIRING BOARD — DISPLAY SECTION —



52

4-19. SCHEMATIC DIAGRAM — DISPLAY SECTION — • Refer to page 55 for IC Block Diagrams.

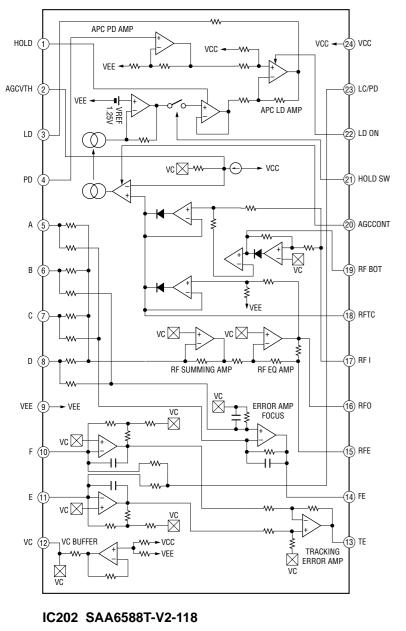


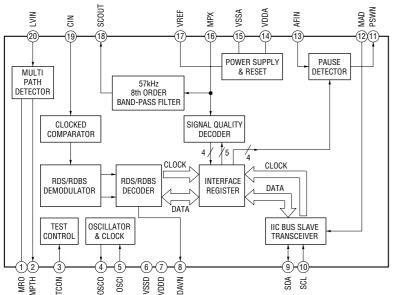
Note:

Voltage is dc with respect to ground under no-signal (detuned) condition.
 no mark: FM

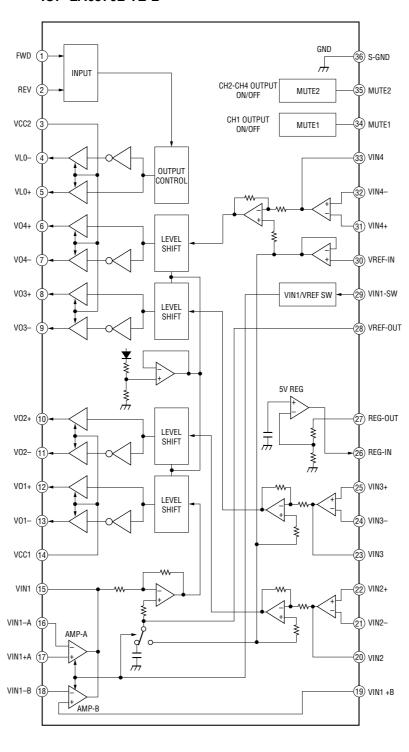
• IC BLOCK DIAGRAMS

IC1 CXA2596M

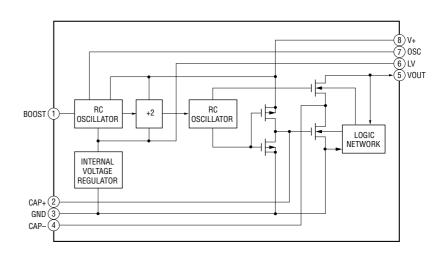




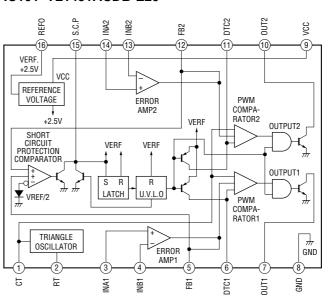
IC7 LA6576L-TE-L



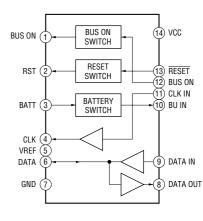
IC306 TC7660SE0A713



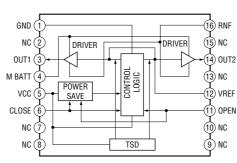
IC101 TL1451ACDB-E20



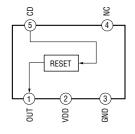
IC601 BA8270F-E2



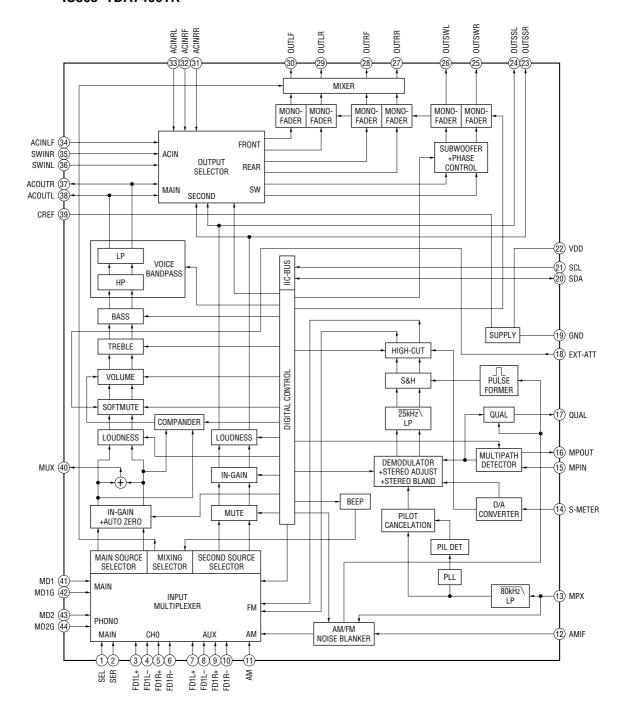
IC651 BA6288FS-E2



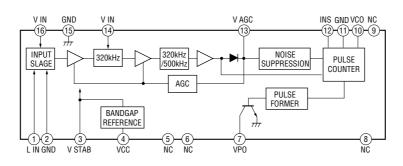
IC102 RN5VD53AA-TL



IC305 TDA7406TR



IC62, 901 RRX9000-0601



SECTION 5 EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service.
 Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts Example :

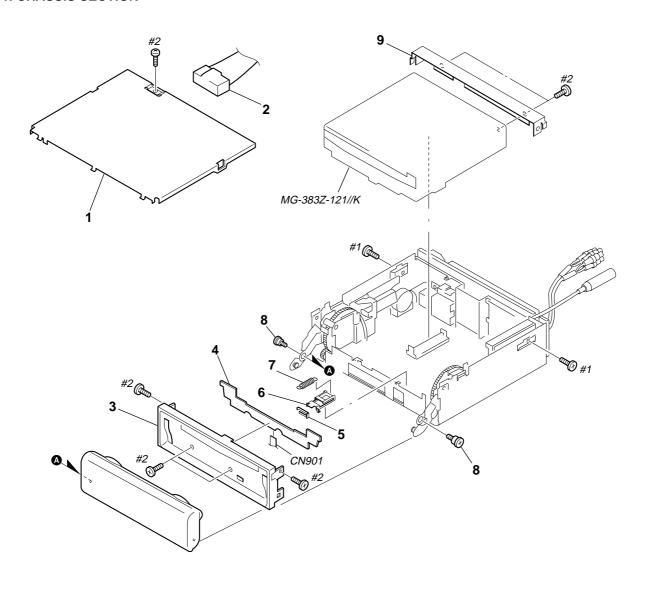
KNOB, BALANCE (WHITE) ... (RED)

† †

Parts Color Cabinet's Color

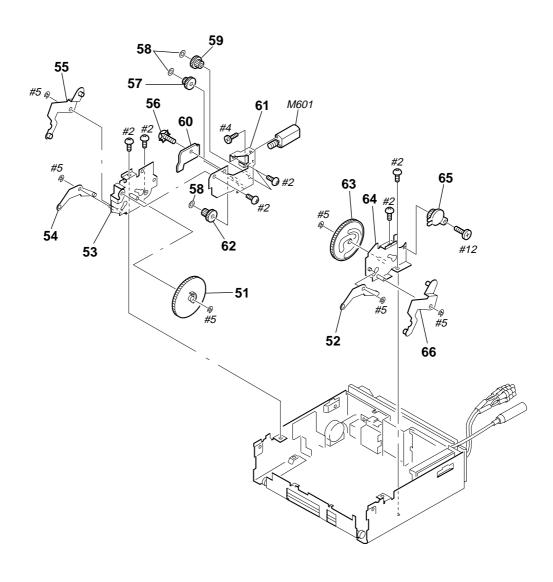
• Accessories and packing materials and hardware (# mark) list are given in the last of this parts list. The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

5-1. CHASSIS SECTION



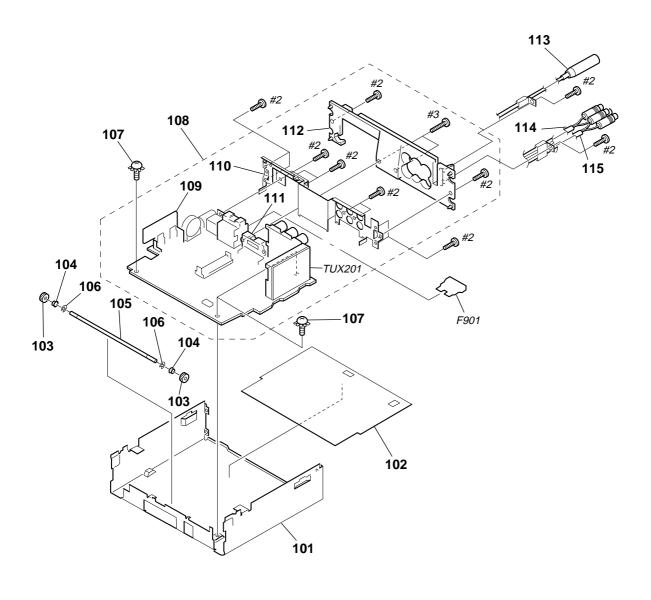
Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
* 1	3-230-511-01	COVER		* 4	1-681-373-11	SUB (CD) BOARD	
2	1-776-207-72	CORD (WITH CONNECTOR) (POWER)	(US)	5	3-230-515-01	SLIDER (FLEXIBLE)	
2	1-776-527-71	CORD (WITH CONNECTOR) (ISO) (PC	WER)	6	3-230-514-01	COVER (FLEXIBLE)	
			(AEP,UK,E)	7	3-230-516-01	SPRING (FLEXIBLE), TENSION	
3	X-3380-551-1	PANEL (CD) SUB ASSY, SUB (M670:L	IS)	8	3-045-756-01	SCREW (PANEL)	
3	X-3380-552-1	PANEL (CD) SUB ASSY, SUB (M620)					
				* 9	3-045-743-01	BRACKET (CD)	
3	X-3380-554-1	PANEL (CD) SUB ASSY, SUB (AEP,UK	,E)	CN90	1 1-783-268-11	CABLE, FLAT 11P	

5-2. CAM SECTION



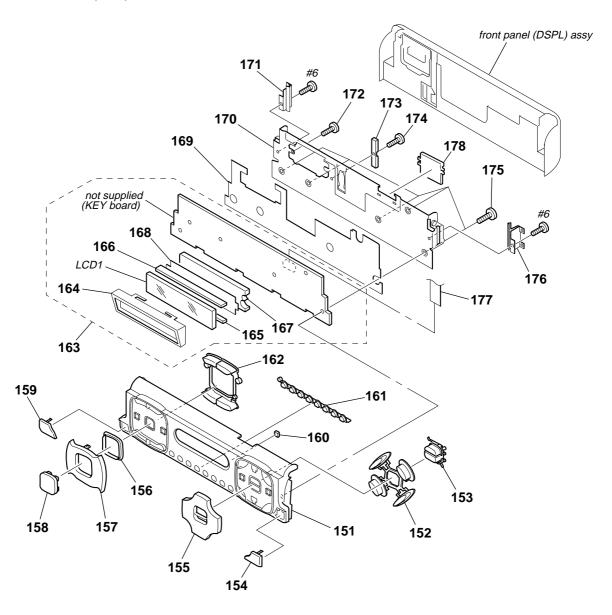
Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
51	3-230-495-01	CAM (L)		* 60	1-681-375-11	SW BOARD	
52	X-3380-549-1	ARM (B-R) ASSY		* 61	X-3378-711-1	BRACKET (MOTOR) ASSY	
53	X-3380-544-1	BRACKET (L) ASSY		62	3-230-494-01	GEAR (C)	
54	X-3380-548-1	ARM (B-L) ASSY		63	3-230-496-01	CAM (R)	
55	X-3380-546-1	ARM (A-L) ASSY		64	X-3380-545-1	BRACKET (R) ASSY	
56	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POIN	Т	65	3-030-909-11	DAMPER, OIL	
57	3-045-714-01	GEAR (B)		66	X-3380-547-1	ARM (A-R) ASSY	
58	3-342-940-01	WASHER (M)		M601	X-3378-769-1	MOTOR ASSY (OPEN/CLOSE)	
59	3-045-713-01	GEAR (A)					

5-3. MAIN BOARD SECTION



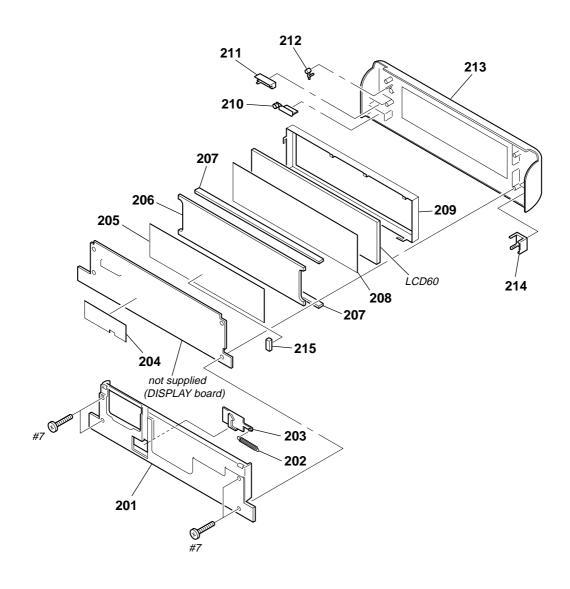
Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>	Ref. No.	Part No.	Description	<u>Remark</u>
101	X-3380-558-1	CHASSIS (CD) ASSY		* 109	3-230-513-01	HEAT SINK (REG)	
* 102	3-230-417-01	SHEET, INSULATING		* 110	3-230-509-01	CHASSIS, BACK	
103	3-230-493-01	GEAR (DRIVE SHAFT)		* 111	3-019-565-01	BRACKET (IC)	
104	3-230-444-01	GUIDE (DRIVE SHAFT)		* 112	3-230-510-21	HEAT SINK (US)	
105	3-045-721-01	SHAFT, DRIVE		* 112	3-230-510-31	HEAT SINK (AEP,UK,E)	
106	3-040-692-01	RING, CE TYPE RETAINING		113	1-777-246-41	CORD (WITH CONNECTOR) (ANT)	
107	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POIN	IT	114	1-790-375-21	CORD (WITH CONNECTOR) (SUB OL	JT (MONO))
* 108	A-3283-172-A	MAIN BOARD, COMPLETE (M670:US)		115	1-757-775-11	CORD (WITH CONNECTOR) (AUX-IN	(AUDIO))
* 108	A-3283-173-A	MAIN BOARD, COMPLETE (M620)		F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 1	0A
* 108	A-3283-174-A	MAIN BOARD, COMPLETE (AEP,UK,E)		TUX201	A-3220-813-A	TUNER UNIT (TUX-020)	

5-4. FRONT PANEL (KEY) ASSY SECTION



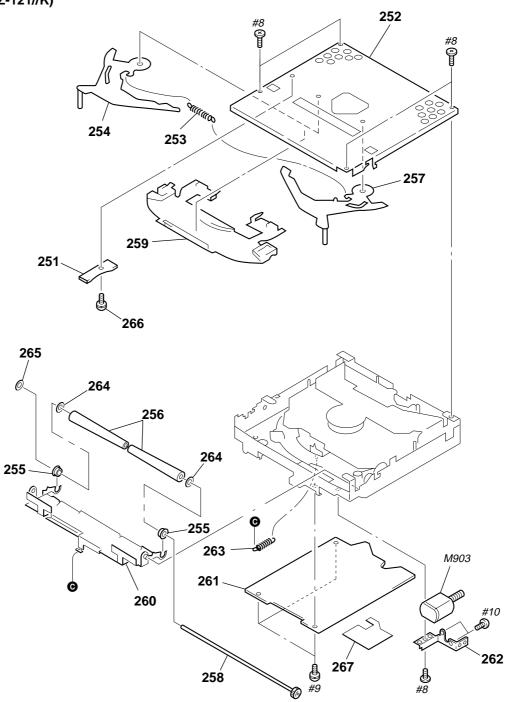
Ref. No.	Part No.	Description	<u>Remark</u>	Ref. No.	Part No.	Description	<u>Remark</u>
151	X-3380-536-1	PANEL (KEY) SUB ASSY, FRONT (M67	70:US)	* 164	3-230-486-01	HOLDER (LCD-KEY)	
151	X-3380-537-1	, , , , , , , , , , , , , , , , , , , ,	,	165	1-694-808-21	CONDUCTIVE BOARD, CONNECTION	
151	X-3380-539-1	PANEL (KEY) SUB ASSY, FRONT (AEP	,UK,E)	166	1-694-807-21	CONDUCTIVE BOARD, CONNECTION	
152	3-230-483-01	BUTTON (ENTER)		* 167	3-230-487-01	PLATE (LCD-KEY), LIGHT GUIDE	
153	3-230-482-01	BUTTON (EQ7)		* 168	3-230-488-01	SHEET (LCD-KEY), DIFFUSION	
154	3-230-480-01	BUTTON (EJECT)		* 169	3-230-415-01	SHEET (KEY), INSULATING	
155	3-230-481-01	BUTTON (SEEK)		170	X-3380-543-1	PANEL ASSY, BASE	
156	3-230-485-01	,		171	X-3380-560-1	SPRING (DETOUCH L) ASSY	
						,	
157	3-230-477-01	BUTTON (+/-)		172	3-063-745-11	SCREW (+P M2 B TITE)	
158	3-230-478-01	BUTTON (SOURCE)		173	3-230-490-01	GUIDE (DETOUCH)	
159	3-230-484-01	BUTTON (CLOSE)		174	2-134-636-31	SCREW (M1.7X2.5)	
160	3-231-433-01	CUSHION (ELECTROSTATIC)		175	3-230-416-01	SCREW	
161	3-230-398-01	BUTTON (6 KEY) (US)		176	X-3380-561-1	SPRING (DETOUCH R) ASSY	
161	3-230-398-11	BUTTON (6 KEY) (AEP,UK,E)		177	1-681-390-11	FLEXIBLE BOARD	
162	3-230-479-01	BUTTON (MODE) (US)		178	3-230-491-01	GUIDE (FLEXIBLE)	
162	3-230-479-11	BUTTON (MODE) (AEP,UK,E)		LCD1	1-804-349-11	DISPLAY PANEL, LIQUID CRYSTAL	
		KEY BOARD, COMPLETE (US)		LODI	1-004-349-11	DISPLAT FAINEL, LIQUID UNTSTAL	
100		, , , ,					
* 163	A-3283-176-A	KEY BOARD, COMPLETE (AEP,UK,E)		I			

5-5. FRONT PANEL (DSPL) ASSY SECTION



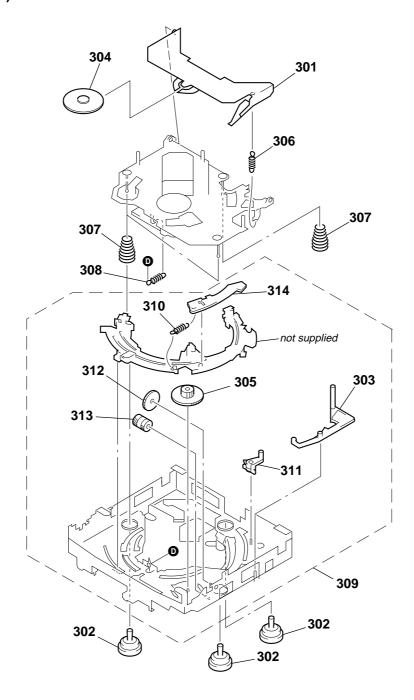
Ref. No.	Part No.	<u>Description</u>	Remark	Ref. No.	Part No.	Description	<u>Remark</u>
201	3-230-470-01	PANEL (FRONT BACK)		* 209	3-230-466-01	HOLDER (LCD-DSPL)	
202	3-230-472-01	SPRING (LOCK), TENSION		210	3-230-426-01	BUTTON (OPEN)	
203	3-230-471-01	LOCK (DETOUCH)		211	3-230-422-01	PLATE (LOGO), LIGHT GUIDE	
204	3-230-378-01	SHEET, INSULATING		212	3-230-427-01	BUTTON (RESET-DSPL)	
* 205	3-230-469-01	SHEET (DSPL), REFLECTION		213	X-3380-903-1	PANEL SUB (DSPL) ASSY, FRONT	
* 206	3-230-467-01	PLATE (LCD-DSPL), LIGHT GUIDE		214	3-230-423-01	FILTER (IR-DSPL)	
207	1-694-806-21	CONDUCTIVE BOARD, CONNECTION		215	3-232-858-01	CUSHION (LIGHT GUIDE PLATE)	
* 208	3-230-468-01	SHEET (DSPL), DIFFUSION		LCD60	1-804-348-11	DISPLAY PANEL, LIQUID CRYSTAL	

5-6. CD MECHANISM SECTION (1) (MG-383Z-121//K)



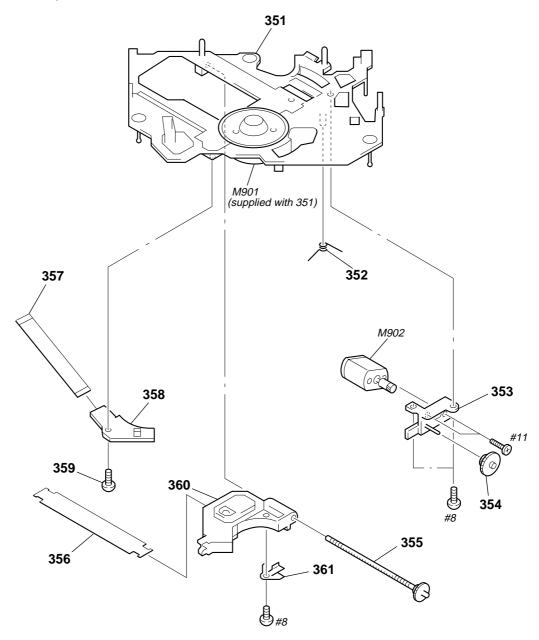
Ref. No.	Part No.	Description	<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
* 251	1-676-709-11	DISC IN SW BOARD		260	3-040-040-01	ARM (ROLLER)	
252	3-040-039-01	CHASSIS (T)		* 261	A-3294-809-A	SERVO BOARD, COMPLETE	
253	3-040-038-01	SPRING (LR), TENSION		262	3-221-779-01	BRACKET (MOTOR)	
254	3-040-050-01	LEVER (L)		263	3-040-034-01	SPRING (RA), TENSION	
255	3-040-022-01	RETAINER (ROLLER), SHAFT		264	3-040-042-01	WASHER	
256	3-040-044-01	ROLLER (S)		265	3-043-880-01	RING (RA), RETAINING	
257	3-040-067-01	LEVER (R)		266	3-044-206-11	SCREW, SPECIAL	
258	A-3301-980-A	SHAFT ROLLER ASSY		267	3-231-392-01	PLATE (CD), SHIELD	
259	3-040-037-01	GUIDE (DISC)		M903	A-3315-039-A	MOTOR SUB ASSY, LO (LOADING)	

5-7. CD MECHANISM SECTION (2) (MG-383Z-121//K)



Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>	Ref. No.	Part No.	Description	<u>Remark</u>
301	3-040-025-01	ARM, CHUCKING		308	3-040-033-01	SPRING (KF1), TENSION	
302	3-040-031-01	DAMPER (T)		309	A-3307-422-A	CHASSIS (M) COMPLETE ASSY	
303	3-040-056-01	LEVER (D)		310	3-040-059-01	SPRING (TR), TENSION	
304	3-040-024-01	RETAINER (DISC)		311	3-040-057-01	LEVER (LOCK)	
305	3-040-054-01	WHEEL (LW), WORM		312	3-040-058-01	GEAR (MDL)	
306	3-040-026-01	SPRING (CH), TENSION		313	3-040-052-01	WHEEL (U), WORM	
307	3-040-032-01	SPRING (FL), COMPRESSION		314	3-040-051-01	LEVER (TR)	

5-8. CD MECHANISM SECTION (3) (MG-383Z-121//K)



The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
351	X-3378-480-1	CHASSIS (OP) ASSY (including M901)	357	1-677-182-11	MOTOR FLEXIBLE BOARD	
352	3-040-029-01	SPRING (SL), TORSION		* 358	1-676-708-11	LIMIT SW BOARD	
353	3-040-045-01	BASE (DRIVING)		359	3-909-607-01	SCREW	
354	3-040-194-01	GEAR (MIDWAY)		1 360 1 €	8-820-103-03	PICK-UP, OPTICAL KSS-720A/K1RP	
355	A-3301-983-A	SHAFT (FEED) ASSY		361	3-040-030-01	SPRING (FEED), PLATE	
356	1-676-707-11	PICK-UP FLEXIBLE BOARD		M902	A-3301-985-A	MOTOR ASSY, SLED (SLED)	

DISPLAY

SECTION 6 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
 All resistors are in ohms.
 METAL:Metal-film resistor.
 METAL OXIDE: Metal oxide-film resistor.
 F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service.
 Some delay should be anticipated when ordering these items.
- when ordering these items.
 SEMICONDUCTORS
 In each case, u : μ, for example:
 uA... : μA... uPA... : μPA...
 uPB... : μPB... uPC... : μPC... uPD... : μPD...

• CAPACITORS uF: μF • COILS uH: μH The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board.

1-694-906-21 CONDUCTIVE BOARD, CONNECTION 3-230-467-01 PLATE (LOD-DSPL) CONDUCTIVE BOARD, LIGHT GUIDE CONDUCTIVE B	Ref. No.	Part No.	<u>Description</u>			Remark	Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>
FB60			DISPLAY BOARD						< FERRITE BEA	AD >		
1-694-866-21 CONDUCTIVE BOARD, CONNECTION 3-230-366-01 HOLDER (LCD-DSPL) CONTROL CON			******									
3-230-367-01 PLATE (LIDUER (LIDUER) LIGHT GUIDE 3-230-468-01 DIDER (LIDUER) LIGHT GUIDE 3-230-468-01 SHEET (DSPL), DIFFUSION SHEET (DSPL), DIFFUSION SHEET (DSPL), DIFFUSION CORD 1-107-826-11 CERAMIC CHIP DILIF 10% 16V CERAMIC CHIP D		1 604 906 91	CONDITIONS BO	ADD CONN	IECTION		FB60	1-500-329-21	INDUCTOR, FE	RRITE BEAD		
** 3-230-468-01 HOLDER (CD-DSPL), LIGHT GUIDE ** 3-230-468-01 SHEET (DSPL), DIFFUSION ** 3-230-468-01 SHEET (DSPL), DIFFUSION ** 3-230-468-01 SHEET (DSPL), REFLECTION ** (CAPACITOR) ** (C					IECTION				< IC >			
** 3-230-468-01 SHEET (DSPL), DIFFUSION ** 3-230-469-01 SHEET (DSPL), REFLECTION ** CAPACITOR > ** CIOUD CRYSTAL DISPLAY > ** CLOUD CRYSTAL DISPLAY >	*		,						,			
* 3-230-469-01 SHEET (DSPL), REFLECTION					GUIDE							
** 3-230-469-01 SHEET (DSPL), REFLECTION CAPACITOR > CAPACITOR > CAPACITOR > CEAMIC CHIP CHIP CHIP 10% 16V CEAMIC CHIP COST 1 - 107-826-11 CERAMIC CHIP O.1 - 10% 16V CEAMIC CHIP COST 1 - 107-826-11 CERAMIC CHIP O.1 - 10% 16V CEAMIC CHIP COST 1 - 107-826-11 CERAMIC CHIP O.1 - 10% 16V CEAMIC CHIP COST 1 - 105-176-11 CEAMIC CHIP COST 1 - 10% 16V CEAMIC CHIP COST 1 - 105-176-11 CEAMIC CHIP COST 1 - 10% 16V CEAMIC CHIP	*	3-230-468-01	SHEET (DSPL), D	IFFUSION								
C60	*	3-230-469-01	SHEET (DSPL), R	EFLECTION			1002	0-759-050-10	IC NAMED OF	0001#1		
C80									< LIQUID CRY	STAL DISPLA	Y >	
C60			< CAPACITOR >									
CREAMIC CHIP 0.1 uF 10% 16V	CGO	1 107 006 11	CEDAMIC CUID	0.1uE	100/	161/	LCD60	1-804-348-11	DISPLAY PANI	EL, LIQUID CI	RYSTAL	
C62									∠ DIODE ∖			
C63									< DIODE >			
LED63 3-19-076-58 LED NSSW440-BRS (LCD BACK LIGHT)							LED60	8-719-079-49	LED LWT673	-R1S2-34 (S0	ONY)	
C65	C64	1-115-412-11	CERAMIC CHIP	680PF	5%	25V	1					
C66	005	1 105 170 11	0504440 01110	0.047.5	100/	4014						
C67												
C70							LEDOS	0-719-070-30	LED NOOW4	tu-bh3 (LUD	DACK LIC	лп <i>1)</i>
C72							LED66	8-719-076-58	LED NSSW44	40-BRS (LCD	BACK LIG	GHT)
C72	C71	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	1	8-719-076-58	LED NSSW44	40-BRS (LCD	BACK LIG	GHT)
C73												
C74							LED69	8-/19-0/6-58	LED NSSW44	10-BRS (LCD	BACK LIG	äHI)
C75									< SWITCH >			
C76									(OWITOIT)			
C78		1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	LSW60	1-771-883-11	SWITCH, TACT	TILE (WITH LI	ED) (OPE	N)
C78	077	1 104 770 00	EL FOT OLUB	00 5	000/	0.01/			TDANOIOTO			
C79									< TRANSISTO	K >		
C80							Q60	8-729-106-60	TRANSISTOR	2SB1132-T1	101-QR	
CN60 1-815-500-21 PLUG, CONNECTOR 15P R60 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R61 1-216-833-11 METAL CHIP 10K 5% 1/16W R62 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R63 1-216-037-00 METAL CHIP 330 5% 1/10W R63 1-216-037-00 METAL CHIP 330 5% 1/10W R64 1-216-037-00 METAL CHIP 330 5% 1/10W R65 8-719-977-12 DIODE KDZ6.8V R65 1-216-025-11 RES-CHIP 100 5% 1/10W R64 8-719-977-12 DIODE KDZ6.8V R66 1-216-025-11 RES-CHIP 100 5% 1/10W R68 8-719-977-12 DIODE KDZ6.8V R67 1-216-025-11 RES-CHIP 100 5% 1/10W R68 1-216-025-11 RES-CHIP 100												
CN60 1-815-500-21 PLUG, CONNECTOR 15P R60 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R61 1-216-833-11 METAL CHIP 10K 5% 1/16W R62 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R63 1-216-037-00 METAL CHIP 330 5% 1/10W R63 1-216-037-00 METAL CHIP 330 5% 1/10W R64 1-216-037-00 METAL CHIP 330 5% 1/10W R65 8-719-977-12 DIODE KDZ6.8V R65 1-216-025-11 RES-CHIP 100 5% 1/10W R64 8-719-977-12 DIODE KDZ6.8V R66 1-216-025-11 RES-CHIP 100 5% 1/10W R68 1-216-025-11 RES-	C81	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	Q62	8-729-904-66	TRANSISTOR	DTD113EK-	T-146	
CN60 1-815-500-21 PLUG, CONNECTOR 15P R60 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R61 1-216-833-11 METAL CHIP 10K 5% 1/16W R62 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R63 1-216-037-00 METAL CHIP 330 5% 1/10W R63 1-216-037-00 METAL CHIP 330 5% 1/10W R64 1-216-037-00 METAL CHIP 330 5% 1/10W R65 8-719-977-12 DIODE KDZ6.8V R65 1-216-025-11 RES-CHIP 100 5% 1/10W R64 8-719-977-12 DIODE KDZ6.8V R66 1-216-025-11 RES-CHIP 100 5% 1/10W R68 1-216-025-11 RES-			~ CONNECTOR ~						∠ DECICTOD \			
R61			COUNTEDION						C ILCOIOTOIT >			
R62 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R63 1-216-037-00 METAL CHIP 330 5% 1/10W R63 1-216-037-00 METAL CHIP 330 5% 1/10W R64 1-216-037-00 METAL CHIP 330 5% 1/10W R65 8-719-977-12 DIODE KDZ6.8V R65 1-216-025-11 RES-CHIP 100 5% 1/10W R64 8-719-977-12 DIODE KDZ6.8V R66 1-216-025-11 RES-CHIP 100 5% 1/10W R65 8-719-977-12 DIODE KDZ6.8V R67 1-216-025-11 RES-CHIP 100 5% 1/10W R68 1-216-025-11 RES-CHIP 100 5% 1/10W R69 1-216-033-00 METAL CHIP 220 5% 1/10W R69 R719-420-14 DIODE MA8082-M(TX) R70 1-216-864-11 SHORT 0	CN60	1-815-500-21	PLUG, CONNECTO	OR 15P								
R63 1-216-037-00 METAL CHIP 330 5% 1/10W R64 1-216-037-00 METAL CHIP 330 5% 1/10W R65 8-719-977-12 DIODE KDZ6.8V R66 1-216-025-11 RES-CHIP 100 5% 1/10W R67 1-216-025-11 RES-CHIP 100 5% 1/10W R68 1-216-033-00 METAL CHIP 220 5% 1/10W R69 1-216-033-00 METAL CHIP 220 5% 1/10W R70 1-216-864-11 SHORT 0			DIODE									
D61 8-719-422-41 DIODE MA8051-L-TX R64 1-216-037-00 METAL CHIP 330 5% 1/10W D62 8-719-977-12 DIODE KDZ6.8V R65 1-216-025-11 RES-CHIP 100 5% 1/10W D64 8-719-977-12 DIODE KDZ6.8V R66 1-216-025-11 RES-CHIP 100 5% 1/10W D65 8-719-977-12 DIODE KDZ6.8V R66 1-216-025-11 RES-CHIP 100 5% 1/10W R68 1-216-025-11 RES-CHIP 100 5% 1/10W R69 1-216-033-00 METAL CHIP 220 5% 1/10W R69 8-719-420-14 DIODE MA8082-M(TX) R70 1-216-864-11 SHORT 0			< DIODE >									
D62 8-719-977-12 DIODE KDZ6.8V D63 8-719-977-12 DIODE KDZ6.8V D64 8-719-977-12 DIODE KDZ6.8V D65 8-719-977-12 DIODE KDZ6.8V D66 8-719-977-12 DIODE KDZ6.8V D66 8-719-977-12 DIODE KDZ6.8V D67 8-719-420-14 DIODE MA8082-M(TX) D68 8-719-977-12 DIODE KDZ6.8V D79 BIODE KDZ6.8V D89 BIODE KDZ6.8V D80 BIODE KDZ6.8V B80 BIODE K	D61	8-719-422-41	DIODE MA8051-	I -TX								
D64 8-719-977-12 DIODE KDZ6.8V R66 1-216-025-11 RES-CHIP 100 5% 1/10W R67 1-216-025-11 RES-CHIP 100 5% 1/10W R68 1-216-025-11 RES-CHIP 100 5% 1/10W R68 1-216-025-11 RES-CHIP 100 5% 1/10W R68 1-216-025-11 RES-CHIP 100 5% 1/10W R69 1-216-033-00 METAL CHIP 220 5% 1/10W R69 8-719-420-14 DIODE MA8082-M(TX) R70 1-216-864-11 SHORT 0				/.							0,0	.,
D65 8-719-977-12 DIODE KDZ6.8V R67 1-216-025-11 RES-CHIP 100 5% 1/10W R68 1-216-025-11 RES-CHIP 100 5% 1/10W R68 1-216-025-11 RES-CHIP 100 5% 1/10W R69 1-216-033-00 METAL CHIP 220 5% 1/10W R69 8-719-420-14 DIODE MA8082-M(TX) R70 1-216-864-11 SHORT 0							R65	1-216-025-11		100		
R68 1-216-025-11 RES-CHIP 100 5% 1/10W D66 8-719-977-12 DIODE KDZ6.8V D67 8-719-420-14 DIODE MA8082-M(TX) D68 8-719-977-12 DIODE KDZ6.8V R69 1-216-033-00 METAL CHIP 220 5% 1/10W R70 1-216-864-11 SHORT 0												
D66 8-719-977-12 DIODE KDZ6.8V R69 1-216-033-00 METAL CHIP 220 5% 1/10W D67 8-719-420-14 DIODE MA8082-M(TX) R70 1-216-864-11 SHORT 0	D65	8-719-977-12	DIODE KDZ6.8V									
D67 8-719-420-14 DIODE MA8082-M(TX) D68 8-719-977-12 DIODE KDZ6.8V R70 1-216-864-11 SHORT 0	Dee	8-719-077-19	DIODE KD76 8\/				1					
D68 8-719-977-12 DIODE KDZ6.8V R70 1-216-864-11 SHORT 0				M(TX)			1103	1 210 000-00	MILIAL UIIII	220	J /0	1/1000
D70 8-719-083-14 DIODE RRX9000-0501 R71 1-216-033-00 METAL CHIP 220 5% 1/10W		8-719-977-12	DIODE KDZ6.8V				R70	1-216-864-11	SHORT	0		
	D70	8-719-083-14	DIODE RRX9000)-0501			R71	1-216-033-00	METAL CHIP	220	5%	1/10W

DISPLAY

DISC IN SW

KEY

Def Ne	Don't No.	Danamintian			Damani	l Def Ne	Don't No.	Danamintian			Damani
Ref. No.	Part No.	<u>Description</u>			Remark	Ref. No.	Part No.	<u>Description</u>			Remark
R72	1-216-811-11		150	5%	1/16W	C7	1-165-176-11		0.047uF	10%	16V
R73 R74	1-216-805-11 1-216-864-11		47 0	5%	1/16W	C8 C9		CERAMIC CHIP CERAMIC CHIP	0.047uF 0.1uF	10%	16V 25V
R76	1-216-841-11		47K	5%	1/16W	C10		CERAMIC CHIP	0.01uF		50V
R77	1-216-825-11		2.2K	5%	1/16W						
								< CONNECTOR >			
R78	1-216-825-11		2.2K	5%	1/16W	ONA	1 015 100 01	CONNECTOR FR	0 (715) 400		
R79 R80	1-216-825-11 1-216-825-11		2.2K 2.2K	5% 5%	1/16W 1/16W	CN1 CN2		CONNECTOR, FPO SOCKET, CONNEC	` '		
R81	1-216-817-11		470	5%	1/16W	ONZ	1 010 001 11	OUUKLI, OUWINE	31011 131		
R82	1-216-809-11		100	5%	1/16W			< DIODE >			
DOO	1 010 000 11	METAL OLUD	100	F0/	4 /4 0 0 0	D7	0.710.400.41	DIODE MAGOE	LTV		
R83 R84	1-216-809-11 1-216-809-11		100 100	5% 5%	1/16W 1/16W	D7 D8	8-719-422-41	DIODE MA8051- DIODE MA8075-			
R85	1-216-841-11		47K	5%	1/16W	D0	0-719-422-00	DIODE WAGOTS	-11-17		
R86	1-216-825-11		2.2K	5%	1/16W			< IC >			
R87	1-216-825-11		2.2K	5%	1/16W						
						IC1	8-759-653-26	IC LC75878W			
R88	1-216-825-11		2.2K	5%	1/16W						
R89	1-216-825-11		2.2K	5%	1/16W			< LIQUID CRYSTA	AL DISPLAY	' >	
R90	1-216-809-11		100	5%	1/16W	1.004	1 004 040 11	DICDLAY DANEI	LIOUID CD	VCTAL	
R91 R92	1-216-809-11 1-216-809-11		100 100	5% 5%	1/16W 1/16W	LCD1	1-804-349-11	DISPLAY PANEL,	LIQUID CK	YSTAL	
1102	1-210-003-11	WILTAL OTTI	100	J /0	1/1000			< DIODE >			
R93	1-216-817-11	METAL CHIP	470	5%	1/16W						
R94	1-216-864-11	SHORT	0			LED1	8-719-079-26	LED NSSB440-V	VRST-THR ((LCD BAC	CK LIGHT)
R95	1-216-846-11		120K	5%	1/16W	LED2		LED NSSB440-V			
R96	1-216-850-11		270K	5%	1/16W	LED3	8-719-078-39	LED CL-170SR-	CD-T (RING	ILLUMIN	(NOITAI
R97	1-216-033-00	METAL CHIP	220	5%	1/10W	LED4		LED CL-170SR-			
		< SWITCH >				LED5	8-719-078-39	LED CL-170SR-	CD-1 (RING	ILLUMIN	(AATION
		COWITOIT				LED6	8-719-078-39	LED CL-170SR-	CD-T (RING	ILLUMIN	(NOITAN
S60	1-771-884-11	SWITCH, TACTILI	E (WITH LE	D) (RESE	T)	LED7		LED CL-170SR-			,
******	******	**********	******	******	******	LED8		LED CL-170SR-		E)	
						LED9		LED CL-170SR-			
*	1-676-709-11	DISC IN SW BOA *********				LED10	8-719-078-39	LED CL-170SR-	CD-T (OFF)		
		*****	***			LED11	8_710_078_30	LED CL-170SR-	CD-T (DSDI	/PTV)	
		< SWITCH >				LED11		LED CL-170SR-			
						LED13		LED CL-170SR-			
SW2	1-529-566-21	SWITCH, PUSH (1 KEY) (SEI	LF)		LED14		LED CL-170SR-			
SW3		SWITCH, PUSH (LED15		LED CL-170SR-			
*****	******	***********	******	******	******						
ate.	A 0000 404 A	KEY BOARD OOL	ADLETE (III	2)		LED16		LED CL-170SR-			
*		KEY BOARD, CON KEY BOARD, CON	,	,		LED17 LED18		LED SLR-332CD			
*	A-3203-170-A	*******		LF,UK,E)		LEDIO	0-719-070-09	LED SLN-3320L)-132IVIIV (E	ui)	
								< SWITCH >			
	1-694-807-21	CONDUCTIVE BO	ARD, CONN	IECTION							
		CONDUCTIVE BO	,	IECTION		LSW1	1-771-883-11	SWITCH, TACTILI			
*		HOLDER (LCD-KE				LSW2	1-771-476-11				JURCE)
*		PLATE (LCD-KEY				LSW5	1-771-883-11				
*	3-230-488-01	SHEET (LCD-KEY), DIFFUSIC	ON		LSW6	1-771-476-11	SWITCH, KEYBO	ARD (WITH	, ,	,
		< CAPACITOR >				LSW7	1-771-476-11	SWITCH, KEYBOA	ARD (WITH		(AEP,UK,E) REP)
						-2	• • • •		\	/ (·/ ·	,
C1		CERAMIC CHIP	0.1uF	10%	16V	LSW8	1-771-476-11	SWITCH, KEYBO	١,	, ,	SHUF)
C2		CERAMIC CHIP	0.1uF	10%	16V	LSW9	1-771-476-11	SWITCH, KEYBO			
C3		CERAMIC CHIP	0.1uF	10%	16V	LSW10		SWITCH, KEYBO			
C4		CERAMIC CHIP	0.1uF	10%	16V	LSW11	1-771-476-11	,	١,	, , ,	
C5	1-115-412-11	CERAMIC CHIP	680PF	5%	25V	LSW12	1-771-476-11	SWITCH, KEYBO	אווא) מטי <i>י</i>	LEU) (4)	
C6	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	LSW13	1-771-883-11	SWITCH, TACTILI	E (WITH LEI	D) (I	◄ ■)

KEY

LIMIT SW

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
			OADD (MIT)	LLED\ /TA				•	0.01/	F0/	
LSW15	1-771-476-11	SWITCH, KEYE	BOARD (WITE			R42	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
1.0144.0	4 774 000 44	014/17011 74.07	^*//		(AEP,UK,E)	R43	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
	1-771-883-11					R44	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
	1-771-883-11					R45	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
LSW22	1-771-883-11	SWITCH, TACT	ILE (WITH LE	:D) (▶► I	▶▶)	R46	1-216-025-11	RES-CHIP	100	5%	1/10W
		TDANGIOTO									(US)
		< TRANSISTO	K >			D.47	4 040 000 00	METAL OLUB	450	5 0/	4.4.014
04	0.700.400.00	TDANIOIOTOD	0004400 T4	04 00		R47	1-216-029-00		150	5%	1/10W
Q1		TRANSISTOR		01-QR		R48	1-216-029-00	METAL CHIP	150	5%	1/10W
Q2		TRANSISTOR		- 4 40		R49	1-216-029-00	METAL CHIP	150	5%	1/10W
Q3	8-729-904-66	TRANSISTOR	D1D113EK-1	1-146		R50	1-216-025-11	RES-CHIP	100	5%	1/10W
		< RESISTOR >				R51	1 010 000 00	METAL CHIP	150	5%	(US) 1/10W
		< hE3131Uh >				וטח	1-216-029-00	WE TAL CHIP	150	370	1/1000
R1	1-216-837-11	METAL CHIP	22K	5%	1/16W	R52	1-216-029-00	METAL CHIP	150	5%	1/10W
R2	1-216-835-11		15K	5%	1/16W	R53	1-216-029-00	METAL CHIP	150	5%	1/10W
R3	1-216-833-11		10K	5%	1/16W	R54	1-216-029-00	METAL CHIP	150	5%	1/10W
R4	1-216-831-11		6.8K	5%	1/16W	R55	1-216-029-00	METAL CHIP	150	5%	1/10W
R5	1-216-829-11		4.7K	5%	1/16W	1100	1-210-023-00	WILIAL OITH	100	J /0	1/1000
110	1-210-029-11	WILTAL OTHE	4./ K	J /0	1/1000			< SWITCH >			
R6	1-216-827-11	METAL CHIP	3.3K	5%	1/16W			< OWITOIT >			
R7	1-216-825-11		2.2K	5%	1/16W	S1	1-786-101-11	SWITCH, DETEC	TION (DETO	IIICH)	
R8	1-216-823-11		1.5K	5%	1/16W	S2	1-771-884-11				SE)
R9	1-216-823-11		1.5K	5%	1/16W	S3	1-692-135-21	,)L)
R10	1-216-821-11		1.5K	5%	1/16W	S4	1-771-884-11	,			
1110	1-210-021-11	WILTAL OTT	IIX	J /0	1/1000	S7	1-692-135-21		,	D) (—)	
R11	1-216-819-11	METAL CHIP	680	5%	1/16W	0,	1 032 103 21	OWITOII, RETBO	AIID (OII)		
R12	1-216-819-11		680	5%	1/16W	S8	1-692-135-21	SWITCH, KEYBO	ARD (SCRI	1	
R13	1-216-819-11		680	5%	1/16W	S9	1-692-135-21				
R14	1-216-837-11	METAL CHIP	22K	5%	1/16W	S10	1-692-135-21	,			
R15	1-216-835-11		15K	5%	1/16W	S11	1-692-135-21	,			
1110	1 210 000 11	WEIAL OIIII	1010	3 70	1/ 10 00	S12	1-692-135-21	,			
R16	1-216-833-11	METAL CHIP	10K	5%	1/16W	012	1 032 103 21	OWITOII, KETDO	AILD (IVILIAC	,	
R17	1-216-831-11		6.8K	5%	1/16W	S13	1-692-135-21	SWITCH, KEYBO	ARD (SOUN	וחו	
R18	1-216-829-11		4.7K	5%	1/16W	S14		SWITCH, TACTIL			١
R19	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	S15		SWITCH, TACTIL			
R20	1-216-825-11		2.2K	5%	1/16W			*******			
					.,						
R21	1-216-823-11	METAL CHIP	1.5K	5%	1/16W	*	1-676-708-11	LIMIT SW BOAR	D		
R22	1-216-823-11		1.5K	5%	1/16W			*****	**		
R23	1-216-821-11	METAL CHIP	1K	5%	1/16W						
R24	1-216-819-11	METAL CHIP	680	5%	1/16W			< CONNECTOR >	•		
R25	1-216-819-11	METAL CHIP	680	5%	1/16W						
						CN13	1-770-347-21	CONNECTOR, FF	C 6P		
R26	1-216-819-11		680	5%	1/16W						
R27	1-216-827-11	METAL CHIP	3.3K	5%	1/16W			< SWITCH >			
R28	1-216-833-11		10K	5%	1/16W						
R29	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	SW4		SWITCH, PUSH			
R30	1-216-815-11	METAL CHIP	330	5%	1/16W	******	******	******	*****	*****	*****
R31	1-216-033-00		220	5%	1/10W						
R32	1-216-025-11		100	5%	1/10W						
R33	1-216-807-11		68	5%	1/16W						
R34	1-216-035-00		270	5%	1/10W						
R35	1-216-035-00	METAL CHIP	270	5%	1/10W						
500	4 040 04= ++	NACTAL COOL	470	F0/	4 /4 00 4 1						
R36	1-216-817-11		470	5%	1/16W						
R37	1-216-029-00		150	5%	1/10W						
R38	1-216-809-11		100	5%	1/16W						
R39	1-216-809-11		100	5%	1/16W						
R40	1-216-809-11	WETAL CHIP	100	5%	1/16W						
D 44	1 016 041 11	METAL CLUB	471/	E0/	1/16/1/						
R41	1-216-841-11	WETAL CHIP	47K	5%	1/16W	I					

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
*		MAIN BOARD, CO	MPLETE (N	/1670:US		C128		CERAMIC CHIP	1uF	10%	6.3V
*		MAIN BOARD, CO			-,	C201		CERAMIC CHIP	18PF	5%	50V
*	A-3283-174-A	MAIN BOARD, CO		EP,UK,E	Ξ)	C202		CERAMIC CHIP	0.1uF		25V
		*********	*****			C205		CERAMIC CHIP	0.1uF		25V
*	3-019-565-01	BRACKET (IC)				C206	1-164-156-11	CERAMIC CHIP	0.1uF		25V
*	3-230-509-01	CHASSIS, BACK				C207	1-124-589-11	ELECT	47uF	20%	16V
*	3-230-510-21	\ /				C208		CERAMIC CHIP	0.1uF		25V
*	3-230-510-31	HEAT SINK (AEP,U				C209	1-104-942-11		1uF	20%	50V
*	3-230-513-01	HEAT SINK (REG)				C210	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (AEP,UK,E)
	7-685-792-09	SCREW +PTT 2.62	X6 (S)			C211	1-164-360-11	CERAMIC CHIP	0.1uF		(AEP,UK,E) 16V
	7-685-794-09	SCREW +PTT 2.62									(AEP,UK,E)
		0117750				0040		0504440 01110	0.004 5	100/	501
		< BUZZER >				C212	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (AEP,UK,E)
BZ501	1-504-920-11	BUZZER				C213	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
											(AEP,UK,E)
		< CAPACITOR >				C214	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	
C51	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	C215	1-125-801-11	CERAMIC CHIP	0.47uF	10%	(AEP,UK,E) 10V
001	1 102 313 11	OLITAWIO OTIII	2211	J /0	(M670:US)	0210	1 123 031 11	OLITAWIO OTIII	0.47 til	10 /0	(AEP,UK,E)
C52	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	C216	1-104-664-11	ELECT	47uF	20%	10V
050	1 100 010 11		0005	F0/	(M670:US)						(AEP,UK,E)
C53	1-162-919-11	CERAMIC CHIP	22PF	5%	50V (M670:US)	C217	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C54	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	0217	1 104 010 11	OLITAWIO OTIII	47011	3 /0	(AEP,UK,E)
					(M670:US)	C218	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C55	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	0010	1 100 004 11	OEDAMIO OLUB	0.0045	100/	(AEP,UK,E)
					(M670:US)	C219	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (AEP,UK,E)
C57	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C220	1-162-924-11	CERAMIC CHIP	56PF	5%	50V
C58	1-164-156-11	CERAMIC CHIP	0.1uF		25V						(AEP,UK,E)
C101	1-124-570-11		220uF	20%	16V	C221	1-162-924-11	CERAMIC CHIP	56PF	5%	50V
C103 C104	1-164-156-11 1-162-964-11	CERAMIC CHIP CERAMIC CHIP	0.1uF 0.001uF	10%	25V 50V						(AEP,UK,E)
0104	1-102-304-11	CENAIVIIC CITIF	0.00141	10 /0	30 V	C222	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C105	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	-					(AEP,UK,E)
C106	1-162-959-11	CERAMIC CHIP	330PF	5%	50V	C223	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C107	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	0004	4 407 000 44	OFDAMAIO OLUB	04.5	400/	(AEP,UK,E)
C108 C109	1-162-959-11 1-126-176-11	CERAMIC CHIP	330PF 220uF	5% 20%	50V 10V	C224	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (AEP,UK,E)
0103	1 120 170 11	LLLOT	220ui	2070	100	C225	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C110		CERAMIC CHIP	150PF	5%	50V						(AEP,UK,E)
C111	1-115-156-11	CERAMIC CHIP	1uF		10V	C226	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C112 C113	1-164-156-11 1-126-176-11	CERAMIC CHIP ELECT	0.1uF 220uF	20%	25V 10V						(AEP,UK,E)
C115	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C227	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
00	02 00	02	0.00.0.	. 0 / 0		022.		02	0.00224.	. 0 / 0	(AEP,UK,E)
C116	1-126-176-11		220uF	20%	10V	C228	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C117	1-126-176-11		220uF	20%	10V	0000	1 105 000 11	CEDAMIC CUID	0.0	100/	(AEP,UK,E)
C118 C119	1-164-156-11 1-162-923-11		0.1uF 47PF	5%	25V 50V	C229	1-120-030-11	CERAMIC CHIP	2.2uF	10%	6.3V (AEP,UK,E)
C120	1-164-156-11	CERAMIC CHIP	0.1uF	J /0	25V	C230	1-164-739-11	CERAMIC CHIP	560PF	5%	50V
											(AEP,UK,E)
C121	1-128-057-11	ELECT	330uF	20%	6.3V	C231	1-124-233-11	ELECT	10uF	20%	16V
C122 C123	1-110-654-11 1-107-826-11	DOUBLE LAYERS CERAMIC CHIP	0.047F 0.1uF	10%	5.5V 16V	C301	1-169-097 11	CERAMIC CHIP	100PF	5%	50V
C123	1-107-020-11	CERAMIC CHIP	0.1uF 0.01uF	10%	25V	C301		CERAMIC CHIP	100PF	5% 5%	50V 50V
C125	1-164-156-11	CERAMIC CHIP	0.01uF	10 /0	25V 25V	C303	1-136-154-00		0.012uF	5%	50V
3120		SELE AVIIO OTIII	J ui			C304	1-136-154-00		0.012uF	5%	50V 50V
C126	1-124-937-11	ELECT	10uF	20%	16V	C305	1-124-233-11		10uF	20%	16V
C127	1-164-156-11	CERAMIC CHIP	0.1uF		25V						

Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>
C306	1-162-965-11	CERAMIC CHIP	0.0015uF		50V	C348	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C307 C308	1-162-965-11 1-162-927-11	CERAMIC CHIP CERAMIC CHIP	0.0015uF 100PF	10% 5%	50V 50V	C348	1_107_715_11	CERAMIC CHIP	0.22uF	10%	T M670:US) 16V
C309	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V	0040	1 127 710 11	OLITAWIO OTIII	0.2241	10 /0	(M670:US)
					(M670:US)	C349	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C310	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C350	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
					(M670:US)	C351	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C311	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V						(M670:US)
0011	1 120 007 11	OLITAWIO OTIII	Tui	10 /0	(M670:US)	C352	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C312	1-164-156-11	CERAMIC CHIP	0.1uF		25V						(M670:US)
					(M670:US)	C353	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C313	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C354	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C314 C315	1-164-156-11 1-164-156-11	CERAMIC CHIP CERAMIC CHIP	0.1uF 0.1uF		25V 25V	C355	1-164-156-11	CERAMIC CHIP	0.1uF		(M670:US) 25V
0313	1-104-150-11	GENAIVIIG GHIF	U.Tur		231	0333	1-104-150-11	GENAIVIIG GHIF	U.Tur		(M670:US)
C316	1-124-937-11	ELECT	10uF	20%	16V	C356	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C317	1-124-233-11	ELECT	10uF	20%	16V						(M670:US)
C318	1-162-927-11	CERAMIC CHIP	100PF	5%	50V						
C319	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C357	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C320	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C357	1 107 715 11	CERAMIC CHIP	0.22uF	(EXCEP	T M670:US) 16V
C321	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V	0337	1-121-115-11	GENAIVIIG GHIF	U.ZZUF	10 /0	(M670:US)
0021	1 120 007 11	OLI II MINIO OTTI	Tui	1070	(M670:US)	C358	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C322	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V	C359	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
					(M670:US)	C360	1-126-382-11	ELECT	100uF	20%	16V
C323	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	0004	1 101 000 11	EL EOT	40 5	000/	4017
C324 C325	1-124-233-11 1-126-157-11	ELECT	10uF 10uF	20% 20%	16V 16V	C361	1-124-233-11	ELECT	10uF	20%	16V T M670:US)
0323	1-120-137-11	ELEGI	TOUF	20 /0	100	C361	1-126-786-11	ELECT	47uF	20%	16V
C328	1-124-233-11	ELECT	10uF	20%	16V					2070	(M670:US)
C329	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C362	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C332	1-127-573-11	CERAMIC CHIP	1uF	10%	16V						(M670:US)
C333	1-127-573-11	CERAMIC CHIP	1uF	10%	16V	C363	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C334	1-124-234-00	ELEGI	22uF	20%	16V (M670:US)	C364	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
					(101070.00)	C365	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C335	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V	C366	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C336	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V	C371	1-104-942-11	ELECT	1uF	20%	50V
					(M670:US)	C372	1-126-157-11	ELECT	10uF	20%	16V
C337	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V T M670:US)	C272	1 105 007 11	CERAMIC CHIP	1uF	10%	(M670:US) 6.3V
C337	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V	C373	1-125-057-11	GENAIVIIG GHIF	TUF	10 /0	0.3 V
0001		ozna amo omi	O.LLUI	1070	(M670:US)	C374	1-126-786-11	ELECT	47uF	20%	16V
C338	1-127-573-11	CERAMIC CHIP	1uF	10%	`16V ´	C375	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
						C376	1-162-927-11		100PF	5%	50V
C339	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V	C377		CERAMIC CHIP	100PF	5%	50V
C340	1-124-234-00	FLECT	22uF	20%	(M670:US) 16V	C378	1-102-927-11	CERAMIC CHIP	100PF	5%	50V
0040	1 124 204 00	LLLOI	ZZUI	2070	(M670:US)	C379	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C341	1-127-573-11	CERAMIC CHIP	1uF	10%	16V	C380	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C342	1-124-234-00	ELECT	22uF	20%	16V	C381	1-164-156-11		0.1uF		25V
00.40	4 404 450 44	0504440 01110	0.4.5		(M670:US)	C382	1-126-176-11	ELECT	220uF	20%	10V
C343	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C383	1-12/-/15-11	CERAMIC CHIP	0.22uF	10%	16V
C344	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V	C384	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
0011	1 120 001 11	OLI II MINIO OTTI			T M670:US)	C385	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C344	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V	C386	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
A					(M670:US)	C387	1-162-919-11		22PF	5%	50V
C345	1-162-970-11		0.01uF	10%	25V	C388	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C346	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V (M670:US)	C403	1-135-473-21	ELECT	3300uF	20%	16V
C347	1-124-465-00	ELECT	0.47uF	20%	50V	C406		CERAMIC CHIP	1uF	10%	16V

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description	Remark
		•	47.5	000/		1101. 110.	ratt No.	•	Homan
C407	1-126-572-11		4.7uF	20%	35V			< CONNECTOR >	
C451	1-124-234-00		22uF 22uF	20%	16V	CNI101	1 774 701 11	PIN, CONNECTOR 16P	
C452 C454	1-124-234-00 1-128-057-11		330uF	20% 20%	16V 6.3V	* CN101 * CN201		PIN, CONNECTOR (PC BC	14 DU/ 3D
C455	1-120-037-11		22uF	20%	16V	* CN301		PIN. CONNECTOR (PC BC	
0400	1 124 204 00	LLLOI	ZZUI	2070	101	CN401		PIN, CONNECTOR (PC BC	, -
C456	1-162-974-11	CERAMIC CHIP	0.01uF		50V	CN601		PLUG, CONNECTOR (BUS	
C457		CERAMIC CHIP	0.1uF		25V			(
C501	1-162-968-11		0.0047uF	10%	50V	CN602	1-568-955-11	PIN, CONNECTOR 6P	
					(AEP,UK,E)	CN603		CONNECTOR, FLEXIBLE 1	
C501	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	CN604	1-815-499-21	CONNECTOR, FPC (ZIF) 1	8P
					(US)				
C502	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V			< JACK >	
0500	4 400 004 44	OED ANALO OLUB	0.004 5	400/	501/	011000	1 771 700 11	IAOK DIN OD (DUO AUDI	O IN
C503		CERAMIC CHIP	0.001uF	10%	50V	CN302	1-//4-/00-11	JACK, PIN 6P (BUS AUDI	
C505 C506		CERAMIC CHIP	0.001uF 470PF	10% 5%	50V 50V			AUL	DIO OUT REAR/FRONT)
C506	1-164-230-11	CERAMIC CHIP CERAMIC CHIP	470PF 220PF	5%	50V 50V			< DIODE >	
C508		CERAMIC CHIP	20PF	5%	50V			< DIODE >	
0300	1 104 100 11	OLITAWIO OTIII	2011	J /0	30 V	D101	8-719-055-30	DIODE D1FS4A-TA	
C509	1-162-920-11	CERAMIC CHIP	27PF	5%	50V	D102		DIODE D1FS4A-TA	
C510		CERAMIC CHIP	0.1uF		25V	D104		DIODE 1SS184	
C511	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V	D105	8-719-060-81	DIODE MA735-TX	
C512	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	D106	8-719-053-18	DIODE 1SR154-400TE-2	25
C513	1-164-156-11	CERAMIC CHIP	0.1uF		25V				
						D107		DIODE MA8062-L-TX	
C514	1-162-964-11		0.001uF	10%	50V	D109		DIODE DTZ5.6B	
C515	1-124-584-00		100uF	20%	10V	D202		DIODE 1SS355TE-17	
C516	1-162-920-11		27PF	5%	50V	D203		DIODE MA8051-L-TX	
C517	1-164-160-11		20PF	5%	50V	D204	8-719-800-76	DIODE MA153-TX (AEP,	UK,E)
C602	1-102-970-11	CERAMIC CHIP	0.01uF	10%	25V	D205	0 710 400 41	DIODE MA8051-L-TX (A	EDIIV E\
C603	1-126-934-11	EL ECT	220uF	20%	16V	D203		DIODE MAGOST-L-TX (A	EP,UK,E)
C650		CERAMIC CHIP	0.1uF	20 /0	25V	D301		DIODE CRS02(TE85L)	
C651		CERAMIC CHIP	0.1uF		25V	D303		DIODE CRS02(TE85L)	
C652		CERAMIC CHIP	0.1uF		25V	D304		DIODE CRS02(TE85L)	
C653		CERAMIC CHIP	0.1uF		25V			,	
						D305		DIODE CRS02(TE85L)	
C655	1-124-589-11		47uF	20%	16V	D306		DIODE CRS02(TE85L)	
C656		CERAMIC CHIP	0.1uF		25V	D307		DIODE CRS02(TE85L)	
C657		CERAMIC CHIP	0.1uF		25V	D308		DIODE CRS02(TE85L)	
C658	1-164-156-11		0.1uF		25V	D309	8-719-801-78	DIODE 1SS184	
C659	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D211	0 710 000 61	DIODE 1SS355TE-17	
C660	1_162_070_11	CERAMIC CHIP	0.01uF	10%	25V	D311 D401		DIODE 1853551E-17 DIODE 1N5404TU	
C701	1-102-570-11		47uF	20%	16V	D401		DIODE DTZ6.8B	
C703	1-162-964-11		0.001uF	10%	50V	D405		DIODE 1SR154-400TE-2	25
C704	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	D406		DIODE 1SR154-400TE-2	
C705	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V				
						D407	8-719-988-61	DIODE 1SS355TE-17	
C706	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D501	8-719-988-61	DIODE 1SS355TE-17 (A	EP,UK,E)
C707	1-162-974-11	CERAMIC CHIP	0.01uF		50V	D502	8-719-988-61	DIODE 1SS355TE-17	
C708	1-162-964-11		0.001uF	10%	50V	D503		DIODE 1SS355TE-17	
C709	1-162-964-11		0.001uF	10%	50V	D504	8-719-422-41	DIODE MA8051-L-TX	
C710	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	D=6-	0.740.000.00	DIODE 40005577 17	
0744	4 400 070 44	OEDAMIO OLUB	0.04 5	100/	051/	D505	8-719-988-61		
C711	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	D506		DIODE 1SS355TE-17	
C712 C801	1-162-974-11		0.01uF 0.001uF	100/	50V 50V	D507		DIODE 188184	
C801	1-162-964-11 1-162-964-11		0.001uF 0.001uF	10% 10%	50V 50V	D508 D509		DIODE 1SS355TE-17 DIODE 1SS355TE-17	
C813	1-102-904-11		1uF	I U /0	10V	מטפט	0-119-300-01	חוטוע ויייסייטוב-וו	
5510		22.0.0000000	141			D510	8-719-988-61	DIODE 1SS355TE-17	
C814	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D511		DIODE 1SS355TE-17	
*						-			

Ref. No.	Part No.	Description	<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>		<u>Remark</u>
D602	8-719-017-95	DIODE MA8180-TX				< JACK >		
D603		DIODE MA8062-M				(0.1011)		
D604		DIODE MA8180-TX		J651	1-566-822-41	JACK (REMOT	E IN) (AEP,UK,E)	
D605		DIODE MA729				`	, , , , ,	
D606	8-719-988-61	DIODE 1SS355TE-17				< COIL >		
D607	8-719-017-95	DIODE MA8180-TX		L101	1-419-506-11	INDLICTOR	150uH	
D608		DIODE 1SS355TE-17		L101	1-414-392-41		1uH	
D609		DIODE 1SS184		L102	1-419-506-11		150uH	
D610		DIODE KDZ6.8V (AEP,UK,E)		L104	1-414-394-41		2.2uH	
D611		DIODE KDZ6.8V (AEP,UK,E)		L105	1-414-394-41		2.2uH	
D612	8-719-988-61	DIODE 1SS355TE-17		L201	1-216-295-11	SHORT	0	
D650	8-719-081-98	DIODE MM3Z6V8T1		L401	1-419-476-31	COIL, CHOKE	250uH	
D651	8-719-801-78	DIODE 1SS184		L501	1-414-185-51	INDUCTOR	22uH	
D652	8-719-820-05	DIODE 1SS181		L701	1-414-856-51	INDUCTOR	10uH	
D801	8-719-977-12	DIODE DTZ6.8B						
						< TRANSISTOR	₹>	
D802	8-719-078-81	DIODE DF5A6.8FU(TE85R)						
D803		DIODE 1SS355TE-17		Q101		TRANSISTOR		
D804		DIODE MA8120-M		Q102		TRANSISTOR		
D805		DIODE DF5A6.8FU(TE85R)		Q103		TRANSISTOR		
D806	8-719-078-81	DIODE DF5A6.8FU(TE85R)		Q105		TRANSISTOR		
D007	0.740.000.04	DIODE 400055TE 47		Q106	8-729-820-46	TRANSISTOR	2SB1202FAS	
D807	8-719-988-61	DIODE 1SS355TE-17		0.4.07	0.700.000.00	TD 4 NO. 0 TO D	1/001000	
		FEDDITE DEAD		Q107		TRANSISTOR		
		< FERRITE BEAD >		Q108		TRANSISTOR		
ED706	1 414 760 01	EEDDITE EMI (CMD)		Q109		TRANSISTOR TRANSISTOR		
		FERRITE, EMI (SMD)		Q110				
FB707	1-414-700-21	FERRITE, EMI (SMD)		Q111	0-729-030-00	TRANSISTOR	KNU1033	
		< IC >		Q112	8-729-038-68	TRANSISTOR	KRC103S	
				Q113		TRANSISTOR		
IC101	8-759-990-43	IC TL1451ACDB-E20		Q114		TRANSISTOR		
IC102		IC RN5VD53AA-TL		Q115		TRANSISTOR		
IC201		IC BA4558F-T1 (AEP,UK,E)		Q116		TRANSISTOR		
IC202	8-759-492-59	IC SAA6588T/V2-118 (AEP,UK,E)						
IC301	8-759-422-21	IC NJM4580V(TE2)		Q117		TRANSISTOR		
				Q118		IC WS57C291		
IC302		IC NJM4580V(TE2)		Q119		TRANSISTOR		
IC303		IC NJM4580V(TE2) (M670:US)		Q201		TRANSISTOR		
IC304		IC NJM4580V(TE2) (M670:US)		Q202	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R	(AEP,UK,E)
IC305		IC TDA7406T		0000	0.700.000.07	TD 4 NO. 10 TO D	1/D04000 /AED111/	
IC306	8-759-363-28	IC TC7660SE0A713 (M670:US)		Q203			KRC102S (AEP,UK,E	
10007	0.750.400.01	IC NUMBERON/(TEO) (MCZOJUC)		Q301			RN1441-A(TE85L) (,
IC307		IC NJM4580V(TE2) (M670:US)		Q301			DTC314TKH04 (AEF	
IC308 IC309		IC NJM4580V(TE2) (M670:US) IC TDA7560 (M670:US)		Q302 Q302			RN1441-A(TE85L) (DTC314TKH04 (AEF	
IC309		IC TA8268AH (EXCEPT M670:US)		Q30Z	0-729-920-21	INANSISTUN	D103141KH04 (AEF	,UK,E)
IC310				Q303	8_720_021_05	TRANSISTOR	RN1441-A(TE85L) (M670·US)
10010	0-733-422-21	10 Noivi4000V(1E2)		Q303	8-729-920-21		DTC314TKH04 (AEF	
IC501	6-700-182-01	IC MB90574BPMT-G-321-BND (US)		Q304			RN1441-A(TE85L) (,
IC501		IC MB90574BPMT-G-322-BND (AEP,	IIK F)	Q304			DTC314TKH04 (AEF	,
IC502	8-759-828-22	· · · · · · · · · · · · · · · · · · ·	J.1,-/	Q305			RN1441-A(TE85L) (
IC601	8-759-449-89			2000	2 . 20 02 . 00		(12002) (
IC650		IC NJM2904V(TE2)		Q305	8-729-920-21	TRANSISTOR	DTC314TKH04 (AEF	UK,E)
	1 11 130	(/		Q306	8-729-120-28		2SC2412K-T-146-R	
IC651	8-759-580-33	IC BA6288FS-E2		Q307			2SB1132-T100-R (N	
IC652		IC PQ09DZ1U		Q308			2SC2412K-T-146-R	
IC701		IC TC7W14FU(TE12R)		Q309		FET 2SK1133		,/
IC702		IC HD6432355A36F						
IC801	8-759-830-17	IC RRX9000-0401R#01		Q310	8-729-038-56	TRANSISTOR	KRA104S	
				Q312	8-729-034-49	TRANSISTOR	KRC104S	

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	<u>Description</u>			Remark
			1104405000	0.10.54	Homan			•	417	5 0/	
Q401	8-729-049-13	TRANSISTOR		-9JG-E1		R138	1-216-821-11		1K	5%	1/16W
Q402	8-729-038-68	TRANSISTOR				R139	1-216-864-11	SHORT	0		
Q404	8-729-038-68	TRANSISTOR				R140	1-216-864-11	SHORT	0		
Q405	8-729-120-28	TRANSISTOR				R141	1-216-845-11		100K	5%	1/16W
Q406	8-729-120-28	TRANSISTOR	2SC1623-L5	L6		R201	1-216-001-00	METAL CHIP	10	5%	1/10W
Q407	8-729-120-28	TRANSISTOR		L6		R202	1-216-864-11		0		
Q501	8-759-068-54					R203	1-216-864-11	SHORT	0		
Q502	8-729-038-67	TRANSISTOR	KRC102S			R204	1-216-817-11	METAL CHIP	470	5%	1/16W
Q602	8-729-038-56	TRANSISTOR	KRA104S			R205	1-216-833-11	METAL CHIP	10K	5%	1/16W
Q603	8-729-038-67	TRANSISTOR	KRC102S								(AEP,UK,E)
						R206	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
Q650	8-729-038-68	TRANSISTOR									(AEP,UK,E)
Q651	8-729-120-28	TRANSISTOR	2SC1623-L5	L6							
Q652	8-729-216-22	TRANSISTOR	2SA1162-G			R207	1-216-809-11	METAL CHIP	100	5%	1/16W
											(AEP,UK,E)
		< RESISTOR >				R208	1-216-845-11	METAL CHIP	100K	5%	1/16W
											(AEP,UK,E)
R51	1-216-821-11	METAL CHIP	1K	5%	1/16W	R209	1-216-295-11	SHORT	0		(AEP,UK,E)
R101	1-216-809-11	METAL CHIP	100	5%	1/16W	R210	1-216-833-11	METAL CHIP	10K	5%	1/16W
R102	1-216-055-00	METAL CHIP	1.8K	5%	1/10W						(AEP,UK,E)
R103	1-216-055-00	METAL CHIP	1.8K	5%	1/10W	R211	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R104	1-216-055-00	METAL CHIP	1.8K	5%	1/10W						(AEP,UK,E)
											(, , , ,
R105	1-216-809-11	METAL CHIP	100	5%	1/16W	R212	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R106	1-216-829-11	METAL CHIP	4.7K	5%	1/16W						(AEP,UK,E)
R107	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R213	1-216-857-11	METAL CHIP	1M	5%	1/16W
R108	1-218-861-11	METAL CHIP	3.9K	0.5%	1/16W						(AEP,UK,E)
R109	1-218-847-11	METAL CHIP	1K	0.5%	1/16W	R214	1-216-809-11	METAL CHIP	100	5%	1/16W
				,	.,						(AEP,UK,E)
R110	1-218-873-11	METAL CHIP	12K	0.5%	1/16W	R215	1-216-853-11	METAL CHIP	470K	5%	1/16W
R111	1-216-841-11	METAL CHIP	47K	5%	1/16W						(AEP,UK,E)
R112	1-216-841-11	METAL CHIP	47K	5%	1/16W	R216	1-216-817-11	METAL CHIP	470	5%	1/16W
R113	1-216-841-11	METAL CHIP	47K	5%	1/16W		. 2.0 0		•	0,0	(AEP,UK,E)
R114	1-216-841-11	METAL CHIP	47K	5%	1/16W						(* 121 ; 511; 2)
	. 2.0 0			• , ,	.,	R217	1-216-797-11	METAL CHIP	10	5%	1/16W
R115	1-216-845-11	METAL CHIP	100K	5%	1/16W				. •	0,0	(AEP,UK,E)
R116	1-218-897-11	METAL CHIP	120K	0.5%	1/16W	R218	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R117	1-216-864-11	SHORT	0	0.070	.,		. 2.0 020			0 / 0	(AEP,UK,E)
R118	1-216-809-11	METAL CHIP	100	5%	1/16W	R219	1-216-821-11	METAL CHIP	1K	5%	1/16W
R119	1-216-055-00	METAL CHIP	1.8K	5%	1/10W		. 2.0 02		•••	0,0	(AEP,UK,E)
	. 2.0 000 00			• , ,	.,	R220	1-216-797-11	METAL CHIP	10	5%	1/16W
R120	1-216-055-00	METAL CHIP	1.8K	5%	1/10W				. •	0,0	(AEP,UK,E)
R121	1-216-055-00		1.8K	5%	1/10W	R221	1-216-864-11	SHORT	0		(* 121 ; 511; 2)
R122	1-216-809-11	METAL CHIP	100	5%	1/16W		. 2.0 00	0	·		
R123	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R222	1-216-864-11	SHORT	0		
R124	1-216-845-11	METAL CHIP	100K	5%	1/16W	R301	1-216-821-11		1K	5%	1/16W
11121	1 210 010 11	WEINE OIIII	10010	0 70	1/1011	R302	1-216-833-11		10K	5%	1/16W
R125	1-218-847-11	METAL CHIP	1K	0.5%	1/16W	R303	1-216-864-11		0		PTM670:US)
R126	1-218-866-11	METAL CHIP	6.2K	0.5%	1/16W	R304	1-216-833-11		10K	5%	1/16W
R127	1-216-845-11	METAL CHIP	100K	5%	1/16W	11004	1 210 000 11	METAL OTT	TOIL	3 /0	1/1000
R128	1-216-057-00		2.2K	5%	1/10W	R305	1-216-864-11	SHORT	0		
R129	1-216-057-00		2.2K 2.2K	5%	1/10W	R306	1-216-864-11		0		
11123	1-210-037-00	WIL TAL OTHE	2.21	J /0	1/1000	R307	1-216-833-11		10K	5%	1/16W
R130	1-216-845-11	METAL CHIP	100K	5%	1/16W	R308	1-216-833-11		10K	5%	1/16W
R131	1-216-829-11	METAL CHIP	4.7K	5% 5%	1/16W	R309	1-216-833-11		10K	5%	1/16W
						กงบช	1-210-033-11	IVIE IAL UNIP	IUN	J 70	1/ 1 O VV
R132	1-216-833-11	METAL CHIP	10K	5% 5%	1/16W	DO10	1 016 000 11	METAL CHID	10K	E0/	1/16W
R133	1-216-835-11	METAL CHIP	15K	5%	1/16W	R310	1-216-833-11			5% (EVCE	
R134	1-216-821-11	METAL CHIP	1K	5%	1/16W	R311	1-216-864-11		0 11/	•	PTM670:US)
Dios	1 016 057 00	METAL CLUB	0.01/	E0/	1/1014	R312	1-216-821-11		1K	5%	1/16W
R135	1-216-057-00		2.2K	5% 5%	1/10W	R313	1-216-833-11		10K	5%	1/16W
R136	1-216-057-00		2.2K	5%	1/10W	R314	1-216-809-11	WE IAL UNIP	100	5% (EVCE)	1/16W
R137	1-216-841-11	METAL CHIP	47K	5%	1/16W	I				(EXCE)	PT M670:US)

Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>
R314	1-216-813-11	METAL CHIP	220	5%	1/16W	R347	1-216-864-11	SHORT	0	(EXCE	PT M670:US)
11014	1-210-010-11	WILIAL OITH	220	J /0	(M670:US)	R348	1-216-864-11	SHORT	0	`	PT M670:US)
D216	1 016 000 11	METAL CHIP	10K	5%	. ,	R349	1-216-864-11		0	`	,
R316	1-216-833-11				1/16W			METAL CHIP		•	PT M670:US)
R317	1-216-841-11	METAL CHIP	47K	5%	1/16W	R350	1-216-833-11	METAL CHIP	10K	5%	1/16W
R318	1-216-845-11	METAL CHIP	100K	5%	1/16W	D054	4 040 000 44	METAL OLUB	4014	5 0/	(M670:US)
					(M670:US)	R351	1-216-833-11	METAL CHIP	10K	5%	1/16W
R319	1-216-837-11	METAL CHIP	22K	5%	1/16W						(M670:US)
					(M670:US)						
						R352	1-216-835-11	METAL CHIP	15K	5%	1/16W
R320	1-216-845-11	METAL CHIP	100K	5%	1/16W						(M670:US)
					(M670:US)	R353	1-216-822-11	METAL CHIP	1.2K	5%	1/16W
R321	1-216-841-11	METAL CHIP	47K	5%	1/16W						(M670:US)
					(M670:US)	R354	1-216-821-11	METAL CHIP	1K	5%	1/16W
R322	1-216-837-11	METAL CHIP	22K	5%	1/16W						(M670:US)
					(M670:US)	R355	1-216-835-11	METAL CHIP	15K	5%	1/16W
R323	1-216-841-11	METAL CHIP	47K	5%	1/16W						(M670:US)
					(M670:US)	R356	1-216-813-11	METAL CHIP	220	5%	` 1/16W ´
R324	1-216-841-11	METAL CHIP	47K	5%	1/16W						.,
				• / -	.,	R357	1-216-813-11	METAL CHIP	220	5%	1/16W
R325	1-216-809-11	METAL CHIP	100	5%	1/16W	R358	1-216-813-11	METAL CHIP	220	5%	1/16W
11020	1 210 000 11	WEINE OIII	100		T M670:US)	R359	1-216-817-11	METAL CHIP	470	5%	1/16W
R325	1-216-813-11	METAL CHIP	220	5%	1/16W	11000	1 210 017 11	WEINE OIM	170	0 70	(M670:US)
HOLO	1 210 010 11	WEINE OITH	LLO	0 70	(M670:US)	R360	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R326	1-216-809-11	METAL CHIP	100	5%	1/16W	R361	1-216-813-11	METAL CHIP	220	5%	1/16W
HOLO	1 210 000 11	WEINE OITH	100		T M670:US)	11001	1 210 010 11	WEINE OIM	220	0 70	171000
R326	1-216-813-11	METAL CHIP	220	5%	1/16W	R362	1-216-821-11	METAL CHIP	1K	5%	1/16W
11020	1 210 010 11	WEIAL OIII	220	3 /0	(M670:US)	11002	1 210 021 11	WEIAL OIII	IIX	3 /0	(M670:US)
R327	1-216-841-11	METAL CHIP	47K	5%	1/16W	R363	1-216-845-11	METAL CHIP	100K	5%	1/16W
11021	1-210-041-11	WILTAL OTHE	4710	J /0	1/1000	R364	1-216-813-11	METAL CHIP	220	5%	1/16W
Dago	1-216-841-11	METAL CHIP	47K	5%	1/16W				10K		1/16W
R329						R365	1-216-833-11	METAL CHIP	IUN	5%	
R330	1-216-833-11	METAL CHIP	10K	5%	1/16W	DOCC	1 010 001 11	METAL OLUD	41/	F0/	(M670:US)
R331	1-216-841-11	METAL CHIP	47K	5%	1/16W	R366	1-216-821-11	METAL CHIP	1K	5%	1/16W
Dooo	4 040 044 44	METAL OLUB	4717	E0/	(M670:US)						(M670:US)
R332	1-216-841-11	METAL CHIP	47K	5%	1/16W	D007	1 010 001 11	METAL OLUB	417	5 0/	4 (4 0) 14
Dooo	4 040 045 44	METAL OLUB	4001/	E0/	(M670:US)	R367	1-216-821-11	METAL CHIP	1K	5%	1/16W
R333	1-216-845-11	METAL CHIP	100K	5%	1/16W	DOCO	1 010 005 11	METAL OLUD	451/	F0/	(M670:US)
					(M670:US)	R368	1-216-835-11	METAL CHIP	15K	5%	1/16W
D004	4 040 007 44	METAL OLUD	001/	F0/	4 (4 C)M	DOCO	1 010 005 11	METAL OLUD	451/	F0/	(M670:US)
R334	1-216-837-11	METAL CHIP	22K	5%	1/16W	R369	1-216-835-11	METAL CHIP	15K	5%	1/16W
5005	1 010 000 11	METAL OLUB	4014	5 0/	(M670:US)	B070	4 040 000 44	METAL OLUB	4014	5 0/	(M670:US)
R335	1-216-833-11	METAL CHIP	10K	5%	1/16W	R370	1-216-833-11	METAL CHIP	10K	5%	1/16W
R336	1-216-845-11	METAL CHIP	100K	5%	1/16W						(M670:US)
					(M670:US)	R371	1-216-833-11	METAL CHIP	10K	5%	1/16W
R337	1-216-837-11	METAL CHIP	22K	5%	1/16W						(M670:US)
D000	4 040 000 44	METAL OLUB	400	5 0/	(M670:US)	B070		OLIODE	•		
R338	1-216-809-11	METAL CHIP	100	5%	1/16W	R372	1-216-864-11		0		
				(EXCEP	T M670:US)	R373	1-216-864-11		0		
						R374	1-216-841-11		47K	5%	1/16W
R338	1-216-813-11	METAL CHIP	220	5%	1/16W	R375	1-216-864-11		0		(US)
					(M670:US)	R376	1-216-841-11	METAL CHIP	47K	5%	1/16W
R339	1-216-833-11	METAL CHIP	10K	5%	1/16W						
R340	1-216-833-11	METAL CHIP	10K	5%	1/16W	R377	1-216-864-11	SHORT	0		
R341	1-216-809-11	METAL CHIP	100	5%	1/16W	R379	1-216-805-11	METAL CHIP	47	5%	1/16W
				(EXCEP	T M670:US)	R380	1-216-841-11	METAL CHIP	47K	5%	1/16W
R341	1-216-813-11	METAL CHIP	220	5%	1/16W	R382	1-216-817-11	METAL CHIP	470	5%	1/16W
					(M670:US)	R383	1-216-295-11	SHORT	0		(M670:US)
R342	1-216-841-11	METAL CHIP	47K	5%	1/16W	R384	1-216-845-11	METAL CHIP	100K	5%	1/16W
R343	1-216-864-11	SHORT	0		TM670:US)						(M670:US)
R344	1-216-864-11	SHORT	0	(EXCEP	T M670:US)	R385	1-216-845-11	METAL CHIP	100K	5%	1/16W
R345	1-216-864-11	SHORT	0								(M670:US)
R346	1-216-864-11	SHORT	0	(EXCEP	T M670:US)	R388	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
											(M670:US)

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
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R389	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R512	1-216-815-11		330	5%	1/16W
					(M670:US)	R513	1-216-821-11	METAL CHIP	1K	5%	1/16W
R389	1-216-864-11	SHORT	0	(EXCE	PT M670:US)	R514	1-216-841-11	METAL CHIP	47K	5%	1/16W
R390	1-216-841-11	METAL CHIP	47K	5%	1/16W	R515	1-216-821-11	METAL CHIP	1K	5%	1/16W
R391	1-216-821-11	METAL CHIP	1K	5%	1/16W	R516	1-216-864-11	SHORT	0		
R393	1-216-821-11	METAL CHIP	1K	5%	1/16W						
	. 2.0 02		•••	0,0	.,	R517	1-216-821-11	METAL CHIP	1K	5%	1/16W
R395	1-216-821-11	METAL CHIP	1K	5%	1/16W	R518	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
		METAL CHIP									
R397	1-216-821-11		1K	5%	1/16W	R519	1-216-813-11	METAL CHIP	220	5%	1/16W
R399	1-216-845-11	METAL CHIP	100K	5%	1/16W	R520	1-216-821-11		1K	5%	1/16W
					(M670:US)	R521	1-216-864-11	SHORT	0		
R400	1-216-845-11	METAL CHIP	100K	5%	1/16W						
					(M670:US)	R522	1-216-864-11	SHORT	0		
R401	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R523	1-216-864-11	SHORT	0		
						R524	1-216-864-11		0		
R402	1-216-821-11	METAL CHIP	1K	5%	1/16W	R526	1-216-845-11		100K	5%	1/16W
R403	1-216-073-00	METAL CHIP	10K	5%	1/10W	R527	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R404	1-216-073-00	METAL CHIP	10K	5%	1/10W						
R405	1-216-833-11	METAL CHIP	10K	5%	1/16W	R528	1-216-845-11	METAL CHIP	100K	5%	1/16W
R406	1-216-833-11	METAL CHIP	10K	5%	1/16W	R529	1-216-845-11	METAL CHIP	100K	5%	1/16W
										(EXCEP	T M670:US)
R409	1-216-073-00	METAL CHIP	10K	5%	1/10W	R530	1-216-864-91	SHORT	0	`	(M670:US)
R410	1-216-073-00	METAL CHIP	10K	5%	1/10W	R535	1-216-845-11	METAL CHIP	100K	5%	1/16W
R411	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R536	1-216-845-11	METAL CHIP	100K	5%	1/16W
						กออบ	1-210-040-11	WE TAL CHIP	TOUR	J /0	1/1000
R412	1-216-841-11	METAL CHIP	47K	5%	1/16W						
					(M670:US)	R537	1-216-845-11	METAL CHIP	100K	5%	1/16W
R413	1-216-841-11	METAL CHIP	47K	5%	1/16W	R538	1-216-845-11	METAL CHIP	100K	5%	1/16W
						R539	1-216-845-11	METAL CHIP	100K	5%	1/16W
R414	1-216-841-11	METAL CHIP	47K	5%	1/16W	R540	1-216-845-11	METAL CHIP	100K	5%	1/16W
R415	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R541	1-216-845-11	METAL CHIP	100K	5%	1/16W
R416	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	11011	1 210 010 11	WEINE OIM	10010	0 70	171000
						DE 40	1 010 045 11	METAL OLUD	4001/	F0/	4/4/01/1
R417	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R542	1-216-845-11	METAL CHIP	100K	5%	1/16W
R418	1-216-833-11	METAL CHIP	10K	5%	1/16W	R543	1-216-845-11	METAL CHIP	100K	5%	1/16W
						R544	1-216-853-11	METAL CHIP	470K	5%	1/16W
R419	1-216-833-11	METAL CHIP	10K	5%	1/16W	R545	1-216-845-11	METAL CHIP	100K	5%	1/16W
R420	1-216-841-11	METAL CHIP	47K	5%	1/16W	R546	1-216-845-11	METAL CHIP	100K	5%	1/16W
R421	1-216-837-11	METAL CHIP	22K	5%	1/16W						
R422	1-216-845-11	METAL CHIP	100K	5%	1/16W	R547	1-216-821-11	METAL CHIP	1K	5%	1/16W
R423	1-216-833-11	METAL CHIP	10K	5%	1/16W	R548	1-216-864-11	SHORT	0	3 /0	1/1000
N423	1-210-033-11	WETAL CHIP	IUN	J /0	1/1000					F0/	4/4/01/1
						R549	1-216-845-11		100K	5%	1/16W
R424	1-216-833-11	METAL CHIP	10K	5%	1/16W	R550	1-216-821-11	METAL CHIP	1K	5%	1/16W
R425	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R551	1-216-821-11	METAL CHIP	1K	5%	1/16W
R451	1-216-295-11	SHORT	0								
R452	1-216-017-11	RES-CHIP	47	5%	1/10W	R552	1-216-821-11	METAL CHIP	1K	5%	1/16W
R453	1-216-295-11	SHORT	0			R553	1-216-817-11	METAL CHIP	470	5%	1/16W
	. 2.0 200	0	· ·			R601	1-216-841-11		47K	5%	1/16W
R455	1-216-001-00	METAL CHID	10	E0/	1/10W				100		1/16W
		METAL CHIP	10	5%	1/1000	R602	1-216-809-11			5%	
R456	1-216-295-11	SHORT	0			R603	1-216-809-11	METAL CHIP	100	5%	1/16W
R457	1-216-864-11	SHORT	0								
R500	1-216-864-11	SHORT	0		(AEP,UK,E)	R604	1-216-835-11	METAL CHIP	15K	5%	1/16W
R501	1-216-837-11	METAL CHIP	22K	5%	1/16W	R605	1-216-821-11	METAL CHIP	1K	5%	1/16W
						R606	1-216-809-11		100	5%	1/16W
R502	1-216-821-11	METAL CHIP	1K	5%	1/16W	11000	1 210 000 11	MEDIC OIM	.00	0 70	(AEP,UK,E)
				J /0	1/1000	D007	1 010 000 11	METAL OLUD	100	F0/	,
R503	1-216-864-11	SHORT	0			R607	1-216-809-11	METAL CHIP	100	5%	1/16W
R504	1-216-833-11	METAL CHIP	10K	5%	1/16W						(AEP,UK,E)
R505	1-216-845-11	METAL CHIP	100K	5%	1/16W	R608	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R506	1-216-833-11	METAL CHIP	10K	5%	1/16W						
						R650	1-216-833-11	METAL CHIP	10K	5%	1/16W
R507	1-216-833-11	METAL CHIP	10K	5%	1/16W	R651	1-216-836-11		18K	5%	1/16W
R508	1-216-845-11	METAL CHIP	100K	5%	1/16W	R652	1-216-821-11		1K	5%	1/16W
R509	1-216-821-11	METAL CHIP	1K	5%	1/16W	R653	1-216-845-11		100K	5%	1/16W
R510	1-216-821-11	METAL CHIP	1K	5%	1/16W	R654	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R511	1-216-864-11	SHORT	0			l					

MAIN

SERVO

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
		<u> </u>	001/	F0/				<u> </u>	470	F0/	
R655	1-216-837-11	METAL CHIP	22K	5%	1/16W	R824	1-216-817-11	METAL CHIP	470	5%	1/16W
R656	1-216-304-11	METAL CHIP	3.3	5%	1/10W	R825	1-216-857-11	METAL CHIP	1M	5%	1/16W
R657	1-216-839-11	METAL CHIP	33K	5%	1/16W	R827	1-216-845-11	METAL CHIP	100K	5%	1/16W
R658	1-216-304-11	METAL CHIP	3.3	5%	1/10W	R828	1-216-821-11	METAL CHIP	1K	5%	1/16W
R659	1-216-304-11	METAL CHIP	3.3	5%	1/10W	R830	1-216-845-11	METAL CHIP	100K	5%	1/16W
R660	1-216-809-11	METAL CHIP	100	5%	1/16W			< THERMISTOR ((POSITIVE) :	>	
R661	1-216-809-11	METAL CHIP	100	5%	1/16W						
R662	1-216-304-11	METAL CHIP	3.3	5%	1/10W	TH101	1-810-940-11	THERMISTOR, P	OSITIVE		
R701	1-216-821-11	METAL CHIP	1K	5%	1/16W	TH102	1-810-940-11	THERMISTOR, P	OSITIVE		
R702	1-216-821-11	METAL CHIP	1K	5%	1/16W	TH601	1-801-792-21	THERMISTOR, P	OSITIVE		
R703	1-216-821-11	METAL CHIP	1K	5%	1/16W			< TUNER >			
R704	1-216-821-11	METAL CHIP	1K	5%	1/16W						
R705	1-216-821-11	METAL CHIP	1K	5%	1/16W	TUX201	A-3220-813-A	TUNER UNIT (TU	X-020)		
R708	1-216-821-11	METAL CHIP	1K	5%	1/16W				/		
R709	1-216-864-11		0	- / -	.,			< VIBRATOR >			
D711	4 040 004 44	OLIODT	•			V004	4 570 000 04	141DD 4TOD 00140	T11 (4.000)		'D.I.I. E.
R711	1-216-864-11		0	5 0/	4 /4 00 44	X201		VIBRATOR, CRYS	`	, ,	P,UK,E)
R712	1-216-845-11	METAL CHIP	100K	5%	1/16W	X501		VIBRATOR, CRYS		- ,	
R713	1-216-864-11	SHORT	0			X503		VIBRATOR, CRYS	,	,	
R714	1-216-821-11		1K	5%	1/16W	X701		VIBRATOR, CERA	•	,	
R715	1-216-864-11	SHORT	0			X801		VIBRATOR, CERA ***********	- (,	*****
R716	1-216-821-11	METAL CHIP	1K	5%	1/16W						
R717	1-216-845-11	METAL CHIP	100K	5%	1/16W	*	A-3294-809-A	SERVO BOARD. (COMPLETE		
R718	1-216-845-11	METAL CHIP	100K	5%	1/16W		71 020 1 000 71	*******			
R719	1-216-845-11	METAL CHIP	100K	5%	1/16W						
R722	1-216-845-11	METAL CHIP	100K	5%	1/16W			< CAPACITOR >			
D700	1 010 045 11	METAL OLUB	1001	5 0/	4.4004	0.101		0504440 01110			4017
R723	1-216-845-11		100K	5%	1/16W	C101	1-115-156-11		1uF	000/	10V
R724	1-216-845-11	METAL CHIP	100K	5%	1/16W	C103	1-104-609-11		100uF	20%	4V
R725	1-216-845-11	METAL CHIP	100K	5%	1/16W	C104		CERAMIC CHIP	1uF		10V
R726	1-216-833-11	METAL CHIP	10K	5%	1/16W	C106	1-164-360-11		0.1uF		16V
R727	1-216-845-11	METAL CHIP	100K	5%	1/16W	C107	1-115-156-11	CERAMIC CHIP	1uF		10V
R801	1-216-821-11	METAL CHIP	1K	5%	1/16W	C108	1-162-974-11	CERAMIC CHIP	0.01uF		50V
R802	1-216-821-11	METAL CHIP	1K	5%	1/16W	C109	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
R803	1-218-716-11	METAL CHIP	10K	0.5%	1/16W	C115	1-164-733-11	CERAMIC CHIP	820PF	10%	50V
R804	1-218-716-11	METAL CHIP	10K	0.5%	1/16W	C116	1-165-128-11	CERAMIC CHIP	0.22uF		16V
R805	1-216-845-11	METAL CHIP	100K	5%	1/16W	C117	1-164-733-11	CERAMIC CHIP	820PF	10%	50V
R806	1-216-821-11	METAL CHIP	1K	5%	1/16W	C118	1-164-360-11	CERAMIC CHIP	0.1uF		16V
R807	1-216-809-11		100	5%	1/16W	C127	1-104-851-11		10uF	10%	10V
R808	1-216-809-11		100	5%	1/16W	C301	1-126-393-11		33uF	20%	10V
R809	1-216-821-11		1K	5%	1/16W	C302		CERAMIC CHIP	0.1uF	2070	16V
R810	1-216-821-11	METAL CHIP	1K	5%	1/16W	C303		CERAMIC CHIP	0.022uF	10%	25V
						_					
R811	1-216-821-11		1K	5%	1/16W	C304		CERAMIC CHIP	0.022uF	10%	25V
R812	1-216-821-11	METAL CHIP	1K	5%	1/16W	C305	1-162-965-11		0.0015uF	10%	50V
R813	1-216-821-11	METAL CHIP	1K	5%	1/16W	C306		CERAMIC CHIP	0.0015uF	10%	50V
R814	1-216-817-11	METAL CHIP	470	5%	1/16W	C307	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
R815	1-216-845-11	METAL CHIP	100K	5%	1/16W	C308	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
R816	1-216-813-11	METAL CHIP	220	5%	1/16W	C309	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
R817	1-216-821-11	METAL CHIP	1K	5%	1/16W	C310	1-125-838-11		2.2uF	10%	6.3V
R818	1-216-841-11	METAL CHIP	47K	5%	1/16W	C311		CERAMIC CHIP	0.033uF	10%	16V
R819	1-216-845-11	METAL CHIP	100K	5%	1/16W	C502		CERAMIC CHIP	0.000ai	10%	50V
R820	1-216-845-11	METAL CHIP	100K	5%	1/16W	C504		CERAMIC CHIP	0.0013uF	10%	50V
11320	. 210 010 11		10010	J / 0	1, 1044	5501			J.JJJJJJ	1070	501
R821	1-216-845-11	METAL CHIP	100K	5%	1/16W	C505		CERAMIC CHIP	0.047uF	10%	16V
R822	1-216-845-11	METAL CHIP	100K	5%	1/16W	C506		CERAMIC CHIP	0.47uF	10%	16V
R823	1-216-821-11	METAL CHIP	1K	5%	1/16W	C507	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

SERVO

Def Ne	Davit Na	Description			Damada	l Def Ne	Davit Na	Danasiatias			Damani
Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>
C508	1-164-230-11		220PF	5%	50V	R111	1-216-842-11	METAL CHIP	56K	5%	1/16W
C509		CERAMIC CHIP	0.1uF		16V	R113	1-216-839-11	METAL CHIP	33K	5%	1/16W
C510		CERAMIC CHIP	150PF	5%	50V	R122	1-216-845-11	METAL CHIP	100K	5%	1/16W
C511	1-164-217-11	CERAMIC CHIP	150PF	5%	50V	R123	1-216-839-11	METAL CHIP	33K	5%	1/16W
C512	1-162-963-11	CERAMIC CHIP	680PF	10%	50V	R127	1-216-821-11	METAL CHIP	1K	5%	1/16W
C513	1-162-963-11	CERAMIC CHIP	680PF	10%	50V	R213	1-216-821-11	METAL CHIP	1K	5%	1/16W
C515		CERAMIC CHIP	0.1uF	10 /0	16V	R301	1-216-839-11	METAL CHIP	33K	5%	1/16W
C516	1-162-974-11	CERAMIC CHIP	0.1uF		50V	R302	1-216-839-11	METAL CHIP	33K	5%	1/16W
C517		CERAMIC CHIP	0.01uF		16V	R303	1-216-821-11		1K	5%	1/16W
C518		CERAMIC CHIP	0.1uF		16V	R304	1-216-839-11	METAL CHIP	33K	5%	1/16W
6316	1-104-300-11	GENAIVIIG GHIF	U.Tur		100	nou4	1-210-039-11	WETAL UNIT	JUN	J /0	1/1000
C519	1-164-360-11	CERAMIC CHIP	0.1uF		16V	R306	1-216-833-11	METAL CHIP	10K	5%	1/16W
C520	1-164-360-11	CERAMIC CHIP	0.1uF		16V	R307	1-216-833-11	METAL CHIP	10K	5%	1/16W
C521	1-164-360-11	CERAMIC CHIP	0.1uF		16V	R308	1-216-833-11		10K	5%	1/16W
C522	1-164-360-11	CERAMIC CHIP	0.1uF		16V	R309	1-216-833-11	METAL CHIP	10K	5%	1/16W
C550	1-164-360-11	CERAMIC CHIP	0.1uF		16V	R310	1-216-833-11	METAL CHIP	10K	5%	1/16W
C553	1-164-360-11	CERAMIC CHIP	0.1uF		16V	R311	1-216-833-11	METAL CHIP	10K	5%	1/16W
C554	1-164-360-11	CERAMIC CHIP	0.1uF		16V	R312	1-216-845-11	METAL CHIP	100K	5%	1/16W
0004	1-104-300-11	OLITAWIO OTIII	U. Tul		101	R313	1-216-842-11	METAL CHIP	56K	5%	1/16W
		< CONNECTOR >				R314	1-216-842-11	METAL CHIP	56K	5%	1/16W
		< GOININEGTON >				R315	1-216-842-11	METAL CHIP	56K	5%	1/16W
CN1	1_76/_616_19	HOUSING, CONN	IECTOR (PC	BUVBU/	30P	noio	1-210-042-11	METAL CHIP	JUK	J /0	1/1000
CN2		CONNECTOR, FP			301	R316	1-216-842-11	METAL CHIP	56K	5%	1/16W
CN3	1-770-347-21	CONNECTOR, FP				R317	1-216-838-11	METAL CHIP	27K	5%	1/16W
UNO	1-770-347-21	CONNECTON, IF	U UF			R318	1-216-840-11	METAL CHIP	39K	5%	1/16W
		< FERRITE BEAD				R319	1-216-840-11		39K	5%	1/16W
		CILIMITE DEAD	,			R320	1-216-833-11		10K	5%	1/16W
FB101	1-469-710-21	INDUCTOR, FERE	RITE BEAD			nozu	1-210-033-11	WETAL CHIP	IUK	J /0	1/1000
FB102	1-469-710-21	INDUCTOR, FERI				R321	1-216-846-11	METAL CHIP	120K	5%	1/16W
FB503	1-469-730-11	INDUCTOR, FERI				R322	1-216-835-11	METAL CHIP	15K	5%	1/16W
						R501	1-216-833-11	METAL CHIP	10K	5%	1/16W
		< IC >				R503	1-216-845-11	METAL CHIP	100K	5%	1/16W
						R504	1-216-857-11	METAL CHIP	1M	5%	1/16W
IC1	8-752-095-36	IC CXA2596M-7	Γ6								
IC5	8-752-920-24	IC CXP84640-0	81Q			R505	1-216-839-11	METAL CHIP	33K	5%	1/16W
IC7	8-759-832-99	IC LA6576L-TE-	-L			R506	1-216-845-11	METAL CHIP	100K	5%	1/16W
IC501	8-752-392-04	IC CXD2598Q				R507	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
						R511	1-216-845-11	METAL CHIP	100K	5%	1/16W
		< JUMPER RESIS	STOR >			R513	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
IDE04	1 010 004 11	CHODE	0			DE40	1 010 045 11	METAL OLUD	1001/	Ε0/	4 /4 0 \ \ \ \
	1-216-864-11		0			R516	1-216-845-11		100K	5%	1/16W
JR505	1-216-864-11		0			R517	1-216-837-11		22K	5%	1/16W
JR506	1-216-864-11	SHUKI	0			R518	1-216-834-11		12K	5%	1/16W
		TDANGIOTOD				R519	1-216-834-11		12K	5%	1/16W
		< TRANSISTOR >	>			R520	1-216-834-11	METAL CHIP	12K	5%	1/16W
Q101	8-729-904-87	TRANSISTOR 2	SB1197K-T	-146-R		R521	1-216-834-11	METAL CHIP	12K	5%	1/16W
						R522	1-216-834-11	METAL CHIP	12K	5%	1/16W
		< RESISTOR >				R523	1-216-834-11	METAL CHIP	12K	5%	1/16W
						R524	1-216-845-11		100K	5%	1/16W
R101	1-216-847-11	METAL CHIP	150K	5%	1/16W	R526	1-216-845-11	METAL CHIP	100K	5%	1/16W
R102	1-216-847-11	METAL CHIP	150K	5%	1/16W						
R103	1-216-801-11	METAL CHIP	22	5%	1/16W	R527	1-216-845-11	METAL CHIP	100K	5%	1/16W
R104	1-216-857-11		1M	5%	1/16W	R531	1-216-809-11	METAL CHIP	100	5%	1/16W
R105	1-216-833-11	METAL CHIP	10K	5%	1/16W	R532	1-216-845-11	METAL CHIP	100K	5%	1/16W
		-				R533	1-216-845-11		100K	5%	1/16W
R106	1-216-857-11	METAL CHIP	1M	5%	1/16W	R535	1-216-845-11	METAL CHIP	100K	5%	1/16W
R107	1-216-835-11	METAL CHIP	15K	5%	1/16W				•		
R108	1-216-838-11	METAL CHIP	27K	5%	1/16W	R551	1-216-841-11	METAL CHIP	47K	5%	1/16W
R109	1-216-801-11		22	5%	1/16W	R552	1-216-841-11		47K	5%	1/16W
R110	1-216-843-11		68K	5%	1/16W	R553	1-216-845-11		100K	5%	1/16W
					•						

SERVO	SUB (CD)	SW
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Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R554		METAL CHIP	100K	5%	1/16W	1101. 110.	<u>r art wo.</u>	< TRANSISTO	. ·		Homark
R555	1-216-845-11 1-216-845-11	METAL CHIP	100K 100K	5% 5%	1/16W			< 1KAN5151UI	1>		
R558	1-216-864-11		0	3 70	1/1000	Q901	8-729-216-22	TRANSISTOR	2SA1037K-	Γ-146-S	
R560	1-216-809-11	METAL CHIP	100	5%	1/16W	Q902		TRANSISTOR			
R563	1-216-809-11	METAL CHIP	100	5%	1/16W						
								< RESISTOR >			
R564	1-216-845-11	METAL CHIP	100K	5%	1/16W	D001	1 010 000 11	METAL CLUD	101/	E0/	1 /1 C\M
R568 R569	1-216-837-11 1-216-809-11	METAL CHIP	22K 100	5% 5%	1/16W 1/16W	R901 R902	1-216-833-11 1-216-845-11	-	10K 100K	5% 5%	1/16W 1/16W
R570	1-216-821-11	METAL CHIP	166 1K	5%	1/16W	R903	1-216-825-11		2.2K	5%	1/16W
R572	1-216-809-11	METAL CHIP	100	5%	1/16W	R904	1-216-035-00		270	5%	1/10W
						R906	1-216-811-11	METAL CHIP	150	5%	1/16W
R590	1-216-845-11	METAL CHIP	100K	5%	1/16W				_		
R594	1-216-845-11	METAL CHIP	100K	5%	1/16W	R907	1-216-864-11		0	F0/	4 /4 C/M
R595 R599	1-216-845-11 1-216-821-11	METAL CHIP METAL CHIP	100K 1K	5% 5%	1/16W 1/16W	R908 R909	1-216-850-11 1-216-846-11		270K 120K	5% 5%	1/16W 1/16W
11099	1-210-021-11	WILTAL OTTE	IIX	J /0	1/1000	11303	1-210-040-11	WILTAL CITIF	1201	J /0	1/1000
		< SWITCH >						< SWITCH >			
CM4	1 700 044 10	CWITCH DETECT	FIONI /CNAA	LL TVDE\	(DOWN)	CMOO4	1 000 105 01	CWITCH KEVI	00 A D.D. /D.E.C.I	\	
SW1	1-762-944-12	SWITCH, DETECT	IUN (SIVIA	ILL TYPE)	(DOWN)		1-692-135-21 *******	,	- (,	******
		< VIBRATOR >									
						*	1-681-375-11	SW BOARD			
X1		VIBRATOR, CERA	,	, ,	,			*****			
X2		VIBRATOR, CERA									
******	******	***********	*****	*****	*****			< SWITCH >			
*	1-681-373-11	SUB (CD) BOARD)			SW1001	1-771-937-21	SWITCH DETE	CTION (OPE	N/CLOSE	١
	1 001 070 11	******					2 1-529-566-31				'
							**********				*****
		< CAPACITOR >									
0000	4 404 450 44	OED ANALO OLUB	0.4 5		051/			MISCELLANEC			
C903 C904	1-164-156-11 1-164-156-11	CERAMIC CHIP CERAMIC CHIP	0.1uF 0.1uF		25V 25V			the abe abe abe abe abe abe abe abe abe a	ic sic sic sic		
C904 C905	1-104-130-11		22uF	20%	6.3V	2	1-776-207-72	CORD (WITH (CONNECTOR	(POWER	(US)
C906		CERAMIC CHIP	0.01uF	10%	25V	2	1-776-527-71	CORD (WITH (CONNECTOR	(ISO) (P	OWER)
C907		CERAMIC CHIP	1uF	10%	6.3V				,	(/ ((AEP,UK,E)
						113	1-777-246-41				
C908	1-164-388-11	CERAMIC CHIP	270PF	5%	50V	114		CORD (WITH (
		, ELAT CADLE .				115	1-757-775-11	CORD (WITH (CONNECTOR)	(AUX-IN	(AUDIO))
		< FLAT CABLE >				177	1-681-390-11	FLEXIBLE BOA	RD		
CN901	1-783-268-11	CABLE, FLAT 11P)			351		CHASSIS (OP)		dina M90	1)
		,				356		PICK-UP FLEX		Ü	,
		< DIODE >				357		MOTOR FLEXI			
D004	0.740.000.04	DIODE 400055T	4-			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8-820-103-03	PICK-UP, OPTI	CAL KSS-720	OA/K1RP	
D901 D902		DIODE 1SS355T DIODE KDZ18V	E-1/			F901	1 500 077 11	FUSE (BLADE	TVDE\	ELICE) 1	0.Λ
D902		LED CL-220UB-	X-TS (DIS	C INI)		M601		MOTOR ASSY			UA
D906		DIODE MA8051-		o,		M902		MOTOR ASSY,			
D907		DIODE MA8068-				M903		MOTOR SUB A			
						******	***********	********	*******	******	*****
D908	8-719-083-14	DIODE RRX9000	0-0501								
		< FERRITE BEAD	>								
FB903	1_500_220_21	INDUCTOR, FERF	SITE BEVD								
י טפטט	1-000-028 - 21		IIIL DEAD								
		< IC >									
IC901	8-759-830-18	IC RRX9000-060	01#1								

The components identified by mark ♠ or dotted line with mark ♠ are critical for safety.

Replace only with part number specified.

Remark

		******		1	_		403
		HARDWARE LIST		401	•	402	404
		******				. ,	
				414	3-231-993-01	KEY (01)	,
*******	******	**********	*****			•	´ ` ´ ` (Al
	X-3378-390-1	CASE ASSY (for FRONT PANEL)	,	413	1-776-527-71	CORD (WITH CO	ONNECTOR) (ISO) (PÓW
	3-230-549-01	LID, BATTERY CASE (for RM-X110)/X111)	412	1-776-207-72	CORD (WITH CO	ONNECTOR) (POWER) (L
		GERMAN,FRE DUTC	NCH,ITALIAN, H) (AEP,UK,E)	411	3-030-929-01	SPRING, FITTIN	G
	3-230-449-11	MANUAL, INSTRUCTION, INSTALL		410	1-465-459-21	ADAPTOR, ANTI	enna (Aep,UK,E)
				409	3-934-325-01	SCREW (+K 5X8	,
		RUSSIA	N) (AEP,UK,E)	408	3-230-445-01	COLLAR	
		SWEDISH,PORTUG		407	X-3366-405-1	١,	EXP), FITTING (AEP,UK,E
	3-230-448-11	MANUAL, INSTRUCTION (ENGLISI	· · · · · · · · · · · · · · · · · · ·	406	3-349-410-01	BUSHING (AEP,	' '
			PANISH) (US)			,	, , , , ,
	3-230-447-11	MANUAL, INSTRUCTION, INSTALL	, , , ,	405	3-386-828-01	SCREW, FITTING	` '
			PANISH) (US)	404	X-3368-725-1	SCREW ASSY, F	\ /
	3-230-446-11	MANUAL, INSTRUCTION (ENGLISI	, \ ,	403	7-682-160-01	SCREW +P 4X6	` '
	1-476-546-21	REMOTE COMMANDER (RM-X110) (US)	402	3-916-012-01	BRACKET (ND),	FITTING ASSIST (US)
	1-476-546-11	REMOTE COMMANDER (RM-X111) (AEP.UK.E)	401	3-014-370-21	FRAME, FITTING	à
		& PACKING MATERIALS				STALLATION AND	
<u></u>			<u> </u>	11011 1101			
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	F

#1	7-685-790-09	SCREW +PTT 2.6X4 (S)
#2	7-685-792-09	SCREW +PTT 2.6X6 (S)
#3	7-685-794-09	SCREW +PTT 2.6X10 (S)
#4	7-627-553-28	SCREW, PRECISION +P 2X2.5
#5	7-624-102-04	STOP RING 1.5, TYPE -E
#6	7-627-552-88	SCREW. PRECISION +P 1.7X2.2
#7	7-685-105-19	SCREW +P 2X8 TYPE2 NON-SLIT
#8	7-627-553-37	SCREW, PRECISION +P 2X3 TYPE3
#9	7-628-253-00	SCREW, SPECIAL
#10	7-627-553-17	SCREW, PRECISION +P 2X2 TYPE3
#11	7-627-850-28	SCREW. PRECISION +P 1.4X3
#12	7-621-255-25	,
******	**********	***********

406 407 408 409 410 411 412 413	3-349-410-01 X-3366-405-1 3-230-445-01 3-934-325-01 1-465-459-21 3-030-929-01 1-776-207-72 1-776-527-71 3-231-993-01	COLLAR SCREW (+K 5X8 TP ADAPTOR, ANTENN SPRING, FITTING CORD (WITH CONN), FITTING (AEP,UK,E)
401	-	402 40	04
	A PAR	[4	03
407		408	409
405	406		
410		411	412
	D)	×2	
413		414	

REVISION HISTORY

Clicking the version allows you to jump to the revised page. Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2001. 03	New